

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A01	Title Sheet
A02	Index Of Sheets Cont. & Std. Dwg. Nos.

STATE OF OREGON
 DEPARTMENT OF TRANSPORTATION

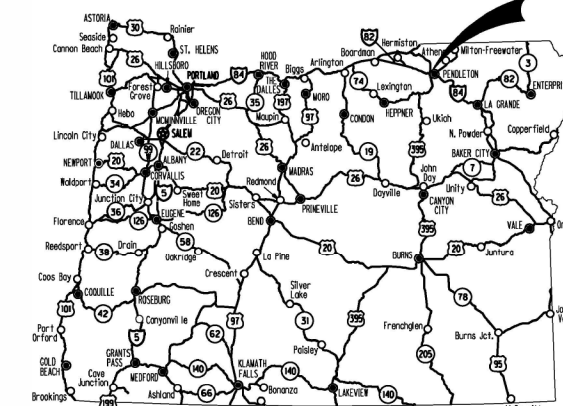
PLANS FOR PROPOSED PROJECT

GRADING, DRAINAGE, STRUCTURES & PAVING

**I-84: RIETH INTERCHANGE AND
 UMATILLA RIVER BRIDGES PROJECT**

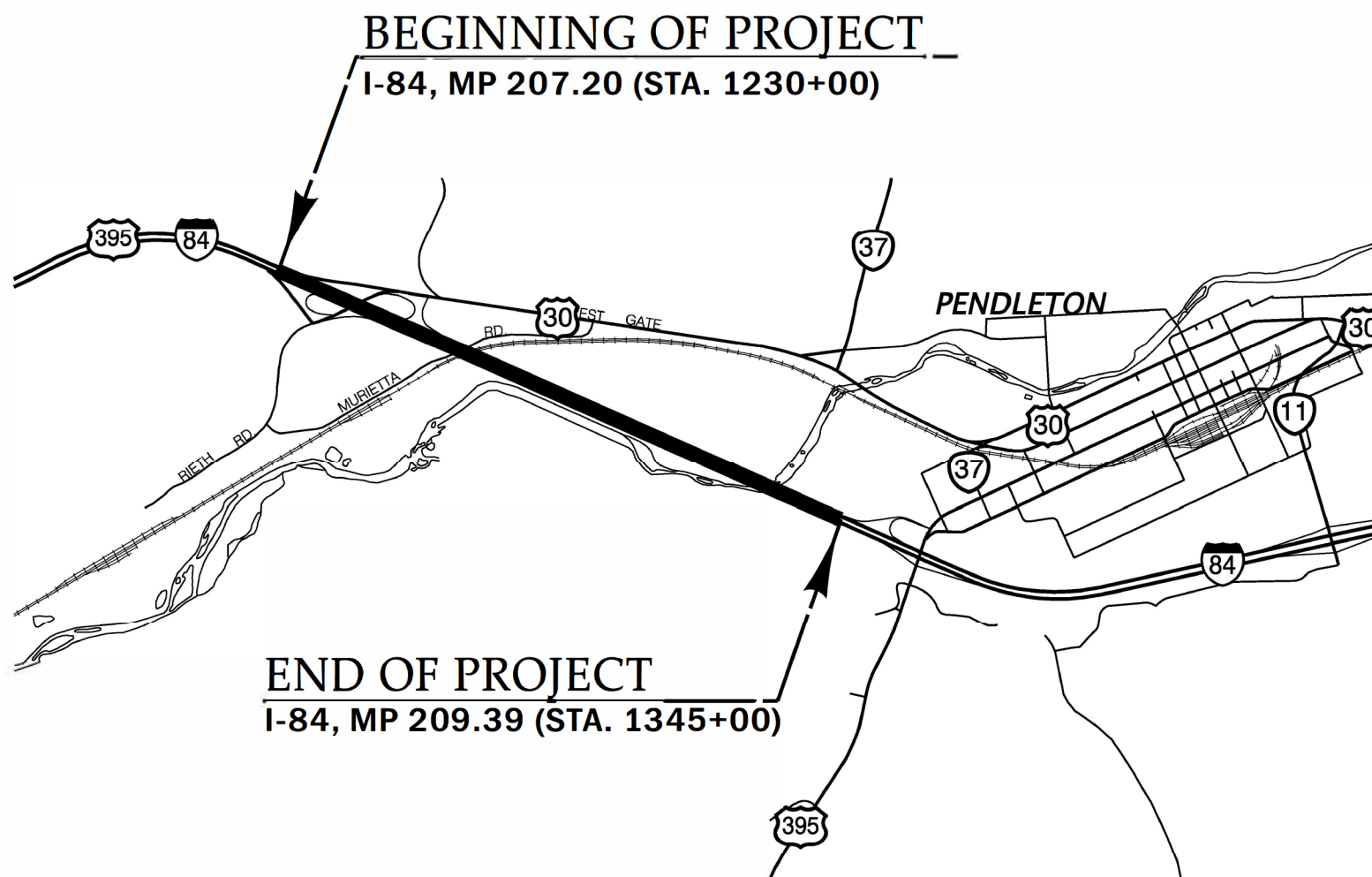
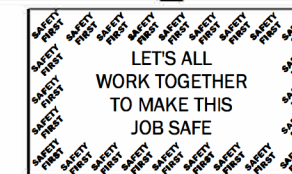
OLD OREGON TRAIL HIGHWAY

**UMATILLA COUNTY
 JUNE 2026**



Overall Length Of Project - 2.19 Miles

ATTENTION:
 Oregon Law Requires You To Follow Rules Adopted
 By The Oregon Utility Notification Center.
 Those Rules Are Set Forth In OAR 952-001-0001
 Through OAR 952-001-0100.
 You May Obtain Copies Of The Rules By Calling
 The Center (Note: The Telephone Number For
 The Oregon Utility Notification Center Is
 (503) 232-1987).



N
 T. 2 N., R. 32 E., W.M.



OREGON TRANSPORTATION COMMISSION

Julie Brown	CHAIR
Lee Beyer	VICE CHAIR
Vacant	COMMISSIONER
Jeff Baker	COMMISSIONER
Phil Chang	COMMISSIONER
Lisa Sumption	(INTERIM) DIRECTOR OF TRANSPORTATION

These plans were developed using ODOT design standards. Exceptions to these standards, if any, have been submitted and approved by the ODOT Chief Engineer or their delegated authority.

Approving Authority: Stephanie Anderson 2026.04.01 12:07:12 -07'00'
 Stephanie Anderson,
 ODOT Region 5 Tech Center Manager

Tova R Peltz 2026.04.10 22:39:27 -07'00'
 Concurrence by ODOT Chief Engineer

**I-84: RIETH INTERCHANGE AND
 UMATILLA RIVER BRIDGES PROJECT**
 OLD OREGON TRAIL HIGHWAY
 UMATILLA COUNTY

FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION	S006(181)	A01

PE003568-000

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SURVEY CONTROL	
SHEET NO.	DESCRIPTION
AB01 thru AB03 incl.	Survey Control Data

INDEX OF SHEETS, CONT.	
ROADWAY DETAILS	
SHEET NO.	DESCRIPTION
BA01 thru. BA04 incl.	Typical Sections
BB01 thru. BB10 incl.	Details
C01	General Construction
C01A	Profile & Construction Notes
C02	General Construction
C03	General Construction
C03A	General Construction Notes
C03B	Profile
C04	General Construction
C04A	General Construction Notes
C04B	Profile
C05	General Construction
C05A	Profile

TRAFFIC CONTROL	
EA01 thru. EA02 incl.	Traffic Control Details
EB01 thru. EB08 incl.	Traffic Control Plan (Stage I, Phase I)
EC01 thru. EC08 incl.	Traffic Control Plan (Stage I, Phase II)
ED01 thru. ED08 incl.	Traffic Control Plan (Stage II)
EE01 thru. EE02 incl.	Traffic Control Detour Plan

EROSION CONTROL	
FB01 thru. FB06 incl.	Erosion and Sediment Control Plans

INDEX OF SHEETS, CONT.		
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STRUCTURES NO. 09520 & 09520A		
JA01	114037	Plan and Notes
JA02	114038	Typical Section
JA03	114039	Plan - Bent 1 Bearing Replacement
JA04	114040	Jacking Details
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STRUCTURES NO. 09521 & 09521A		
JB01	114042	Plan and Notes
JB02	114043	Typical Section
JB03	114044	Snowplow Deflector Plan
JB04	114045	Snowplow Deflector Details
JB05	114046	Snowplow Deflector Sections & Details

Standard Dwg. Nos.:

- RD150 - Slope Rounding
- RD300 - Trench Backfill, Bedding, Pipe Zone And Multiple Installations
- RD319 - Miscellaneous Culvert Details
- RD320 - Paved End Slope For Culverts 60" Maximum Pipe Size
- RD339 - Pipe To Structure Connections
- RD365 - Frames & Grates For Concrete Inlets
- RD370 - Ditch Inlet Type D
- RD388 - Fill Height Tables For PVC Pipe
- RD393 - Fill Height Tables For Polypropylene Pipe
- RD402 - Midwest Guardrail System Types
- RD403 - Midwest Guardrail System Wood Post And Block
- RD404 - Midwest Guardrail System Steel Post And Block
- RD407 - Midwest Guardrail System (W-Beam)
- RD409 - Thrie Beam Guardrail
- RD410 - Thrie Beam Guardrail Transition
- RD416 - Midwest Guardrail System Standard Hardware (Nuts, Bolts, Washers And Misc.)
- RD419 - Midwest Guardrail System Grading For Terminals
- RD420 - Midwest Guardrail System Non-Flared Energy-Absorbing Terminal
- RD442A - Midwest Guardrail System Placement At Bridge Ends (Sheet 1 of 2)
- RD482 - Midwest Guardrail System Type 3 (Nested W-Beam)
- RD500 - 32" Concrete Barrier Type "F" Precast
- RD501 - 32" Concrete Barrier Type "F" Precast Reinforcing
- RD503 - Precast Concrete Barrier Pin and Loop Assembly For Temporary Installation
- RD610 - Asphalt Concrete Pavement (ACP) Details
- RD615 - Surface Edge Details
- RD1006 - Check Dams Type 2 And 6
- RD1010 - Inlet Protection Type 2, 3, 6, 7, 10 And 11
- RD1030 - Sediment Barrier Type 2, 3 And 4
- BR195 - Bridge ID Marker
- BR203 - Transition Type "F" Concrete Rail to Guardrail
- TM500 - Pavement Marking Standard Detail Blocks
- TM521 - Durable & High Performance Pavement Markings Surface & Groove Installed
- TM547 - Freeway Entrance Ramp Pavement Markings
- TM551 - Freeway Exit Ramp Pavement Markings
- TM560 - Alignment Layout: General
- TM800 - Tables, Abrupt Edge and PCMS Details
- TM820 - Temporary Barricades
- TM821 - Temporary Sign Supports
- TM822 - Temporary Sign Supports
- TM833 - Temporary Impact Attenuators
- TM850 - 2-Lane, 2-Way Roadways
- TM855 - 2-Lane, 2-Way Roadways
- TM860 - Freeway Sections-Ramps

R/W Map Nos. 8B-35-4 & 8B-34-16

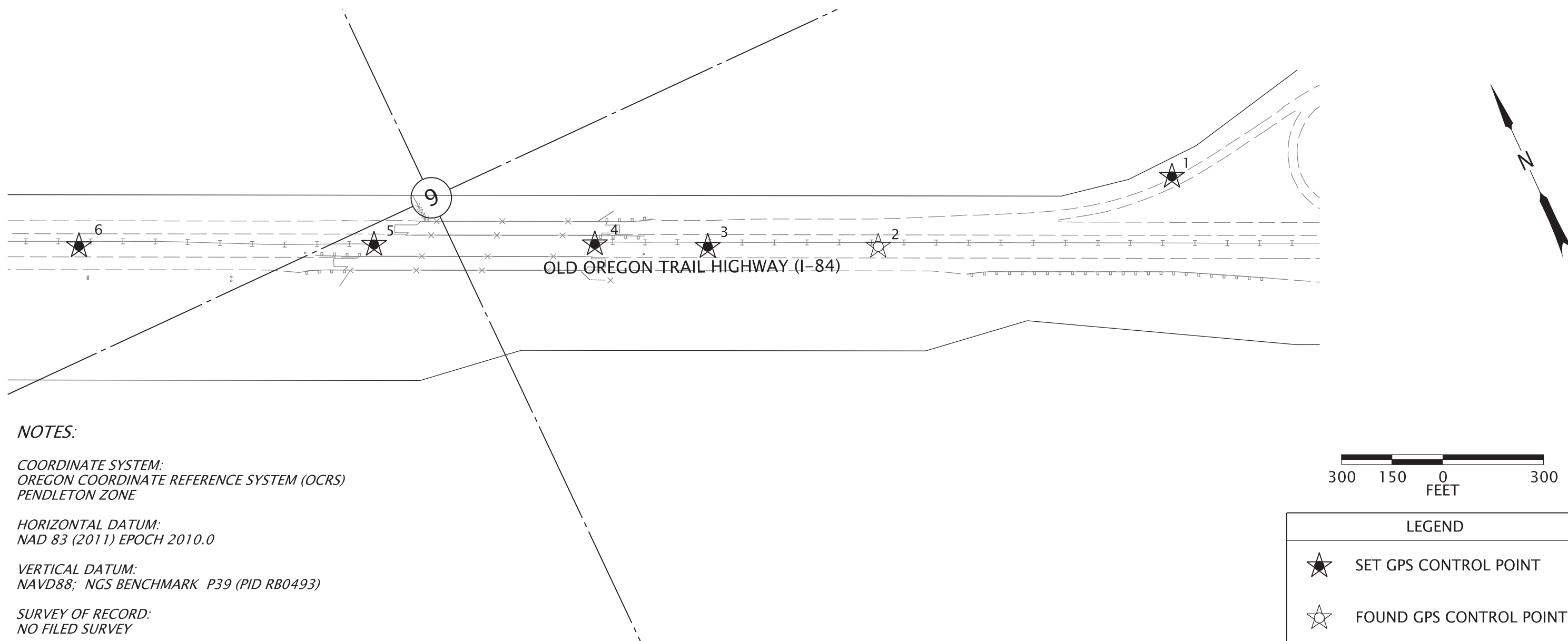


**I-84: RIETH INTERCHANGE AND
UMATILLA RIVER BRIDGES PROJECT**
OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION	SEE SHEET A01	A02

Standard Drawings located on the web at:
<http://www.oregon.gov/ODOT/Engineering/Pages/Standards.aspx>

SEC. 9, T. 2 N., R. 32 E., W.M.



NOTES:

COORDINATE SYSTEM:
OREGON COORDINATE REFERENCE SYSTEM (OCRS)
PENDLETON ZONE

HORIZONTAL DATUM:
NAD 83 (2011) EPOCH 2010.0

VERTICAL DATUM:
NAVD88; NGS BENCHMARK P39 (PID RB0493)

SURVEY OF RECORD:
NO FILED SURVEY

FIELD VERIFY ALL CONTROL BEFORE USE



LEGEND	
	SET GPS CONTROL POINT
	FOUND GPS CONTROL POINT

NETWORK CONTROL TABLE

PT. NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	151258.496	288004.918	1048.33	SET 1-1/8" COPPER DISK MARKED "ODOT CONTROL"
2	151623.865	287217.271	1038.74	FOUND 2-3/4" BRASS DISK MARKED "STATE HIGHWAY DEPARTMENT REFERENCE"
3	151834.277	286756.860	1036.10	SET 1-1/8" COPPER DISK MARKED "ODOT CONTROL"
4	151980.437	286466.157	1039.16	SET 1-1/8" COPPER DISK MARKED "ODOT CONTROL"
5	152252.849	285859.526	1035.81	SET 1-1/8" COPPER DISK MARKED "ODOT CONTROL"
6	152614.058	285061.732	1027.43	SET 1-1/8" COPPER DISK MARKED "ODOT CONTROL"

REGISTERED PROFESSIONAL LAND SURVEYOR

Digitally Signed 2026.04.07 09:19:31 -07'00'

OREGON
JANUARY 14, 2003
BRET ELITHORP
63148

EXPIRES: 12-31-2027

OREGON DEPARTMENT OF TRANSPORTATION

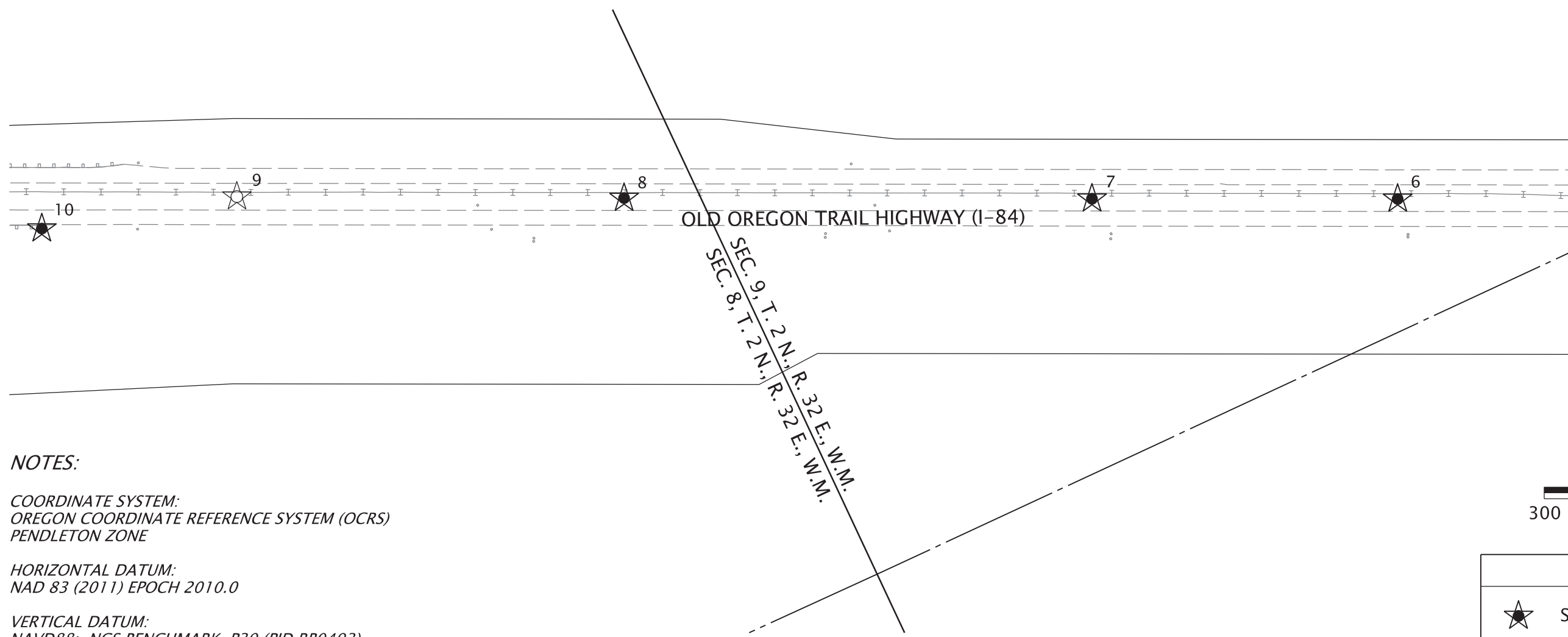
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT
OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

Designer: THOMAS CLARK Reviewer: BRET ELITHORP
Drafter: THOMAS CLARK Checker: BRET ELITHORP

SURVEY CONTROL DATA

SHEET NO. AB01

NE¹/₄ SEC. 8, T. 2 N., R. 32 E., W.M.
 NW¹/₄ SEC. 9, T. 2 N., R. 32 E., W.M.



NOTES:

COORDINATE SYSTEM:
 OREGON COORDINATE REFERENCE SYSTEM (OCRS)
 PENDLETON ZONE

HORIZONTAL DATUM:
 NAD 83 (2011) EPOCH 2010.0

VERTICAL DATUM:
 NAVD88; NGS BENCHMARK P39 (PID RB0493)

SURVEY OF RECORD:
 NO FILED SURVEY

FIELD VERIFY ALL CONTROL BEFORE USE



LEGEND	
	SET GPS CONTROL POINT
	FOUND GPS CONTROL POINT

NETWORK CONTROL TABLE

PT. NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
6	152614.058	285061.732	1027.43	SET 1-1/8" COPPER DISK MARKED "ODOT CONTROL"
7	152941.326	284349.373	1023.58	SET 1-1/8" COPPER DISK MARKED "ODOT CONTROL"
8	153443.308	283259.293	1018.01	SET 1-1/8" COPPER DISK MARKED "ODOT CONTROL"
9	153860.853	282358.253	1014.69	FOUND 2-3/4" BRASS DISK MARKED "STATE HIGHWAY DEPARTMENT REFERENCE"
10	153994.874	281869.284	1020.67	SET 5/8" IRON ROD WITH RED PLASTIC CAP MARKED "ODOT CONTROL"


REGISTERED PROFESSIONAL LAND SURVEYOR

Digitally Signed 2026.04.07 08:41:31 -07'00'

OREGON
 JANUARY 14, 2003
 BRET ELITHORP
 63148

EXPIRES: 12-31-2027

OREGON DEPARTMENT OF TRANSPORTATION



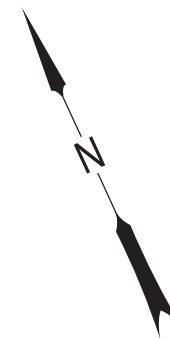
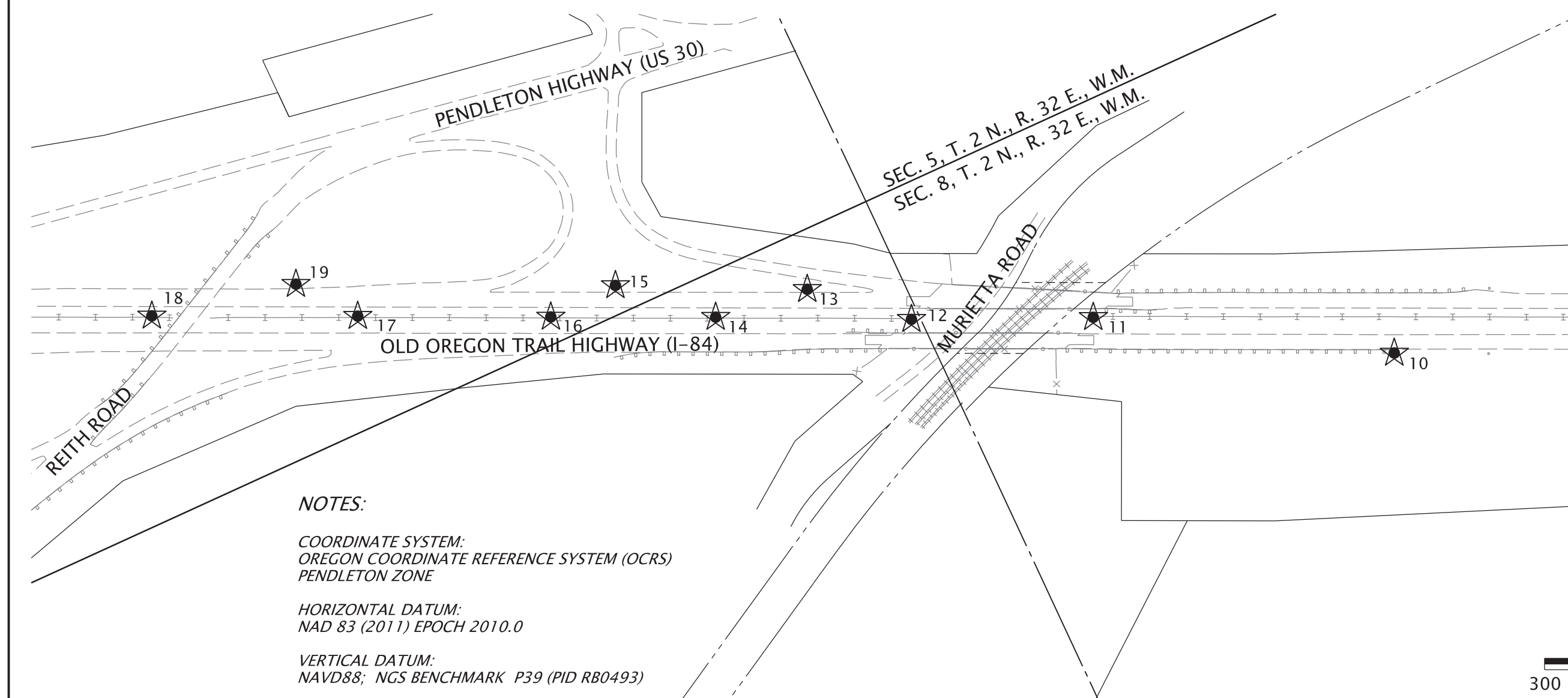
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT
 OLD OREGON TRAIL HIGHWAY
 UMATILLA COUNTY

Designer: THOMAS CLARK Reviewer: BRET ELITHORP
 Drafter: THOMAS CLARK Checker: BRET ELITHORP

SURVEY CONTROL DATA

SHEET NO. AB02

N¹/₂ SEC. 8, T. 2 N., R. 32 E., W.M.
 SW¹/₄ SEC. 5, T. 2 N., R. 32 E., W.M.



NOTES:

COORDINATE SYSTEM:
 OREGON COORDINATE REFERENCE SYSTEM (OCRS)
 PENDLETON ZONE

HORIZONTAL DATUM:
 NAD 83 (2011) EPOCH 2010.0

VERTICAL DATUM:
 NAVD88; NGS BENCHMARK P39 (PID RB0493)

SURVEY OF RECORD:
 NO FILED SURVEY

FIELD VERIFY ALL CONTROL BEFORE USE



LEGEND	
★	SET GPS CONTROL POINT

NETWORK CONTROL TABLE

PT. NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
10	153994.874	281869.284	1020.67	SET 5/8" IRON ROD WITH RED PLASTIC CAP MARKED "ODOT CONTROL"
11	154406.310	281195.585	1047.80	SET 1-1/8" COPPER DISK MARKED "ODOT CONTROL"
12	154598.942	280763.249	1063.85	SET 1-1/8" COPPER DISK MARKED "ODOT CONTROL"
13	154782.992	280549.275	1070.80	SET 5/8" IRON ROD WITH RED PLASTIC CAP MARKED "ODOT CONTROL"
14	154816.620	280302.274	1076.65	SET 1-1/8" COPPER DISK MARKED "ODOT CONTROL"
15	155000.449	280099.381	1087.17	SET 5/8" IRON ROD WITH RED PLASTIC CAP MARKED "ODOT CONTROL"
16	154996.070	279912.500	1094.60	SET 1-1/8" COPPER DISK MARKED "ODOT CONTROL"
17	155207.534	279456.393	1110.69	SET 1-1/8" COPPER DISK MARKED "ODOT CONTROL"
18	155431.672	278969.371	1129.31	SET 1-1/8" COPPER DISK MARKED "ODOT CONTROL"
19	155350.324	279344.829	1115.54	SET 5/8" IRON ROD WITH RED PLASTIC CAP MARKED "ODOT CONTROL"

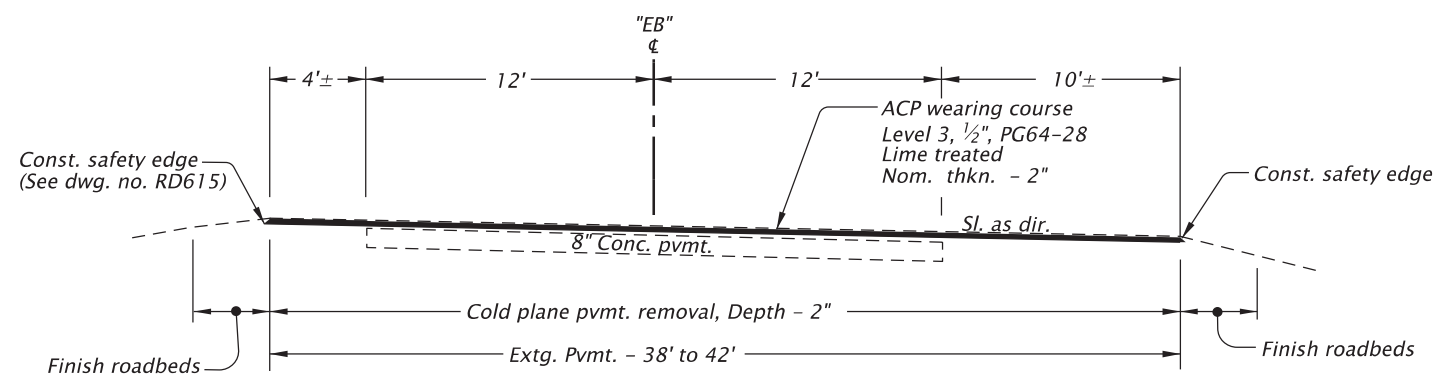
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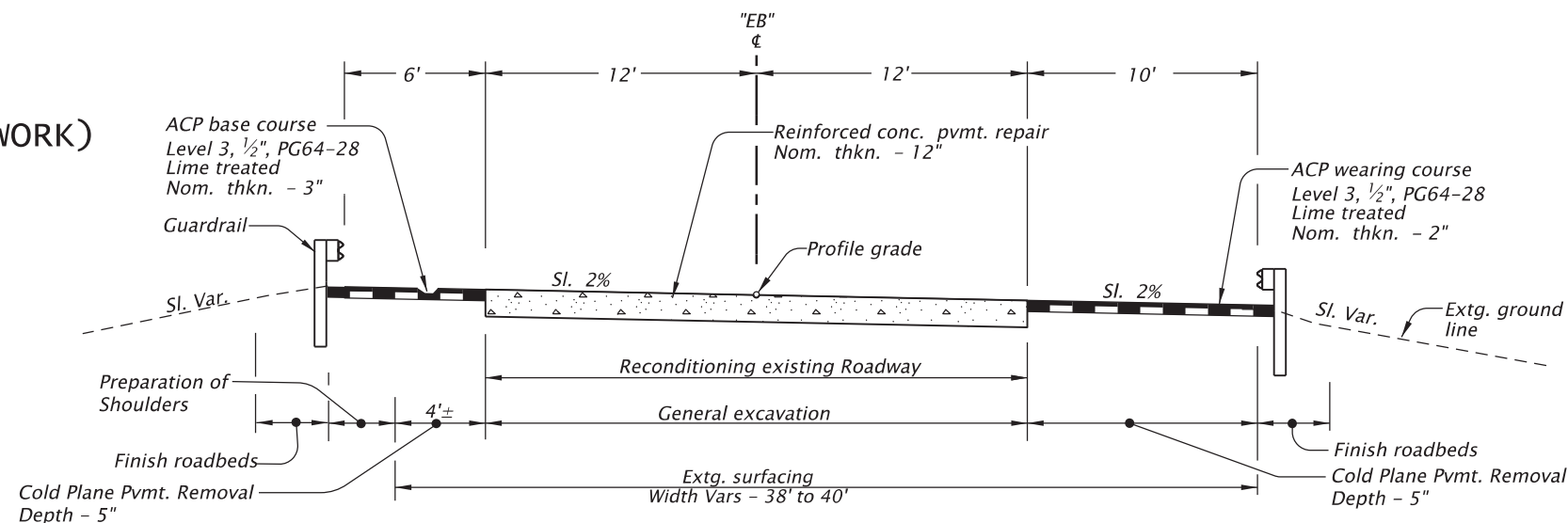
OREGON
 JANUARY 14, 2003
 BRET ELITHORP
 63148

EXPIRES: 12-31-2027

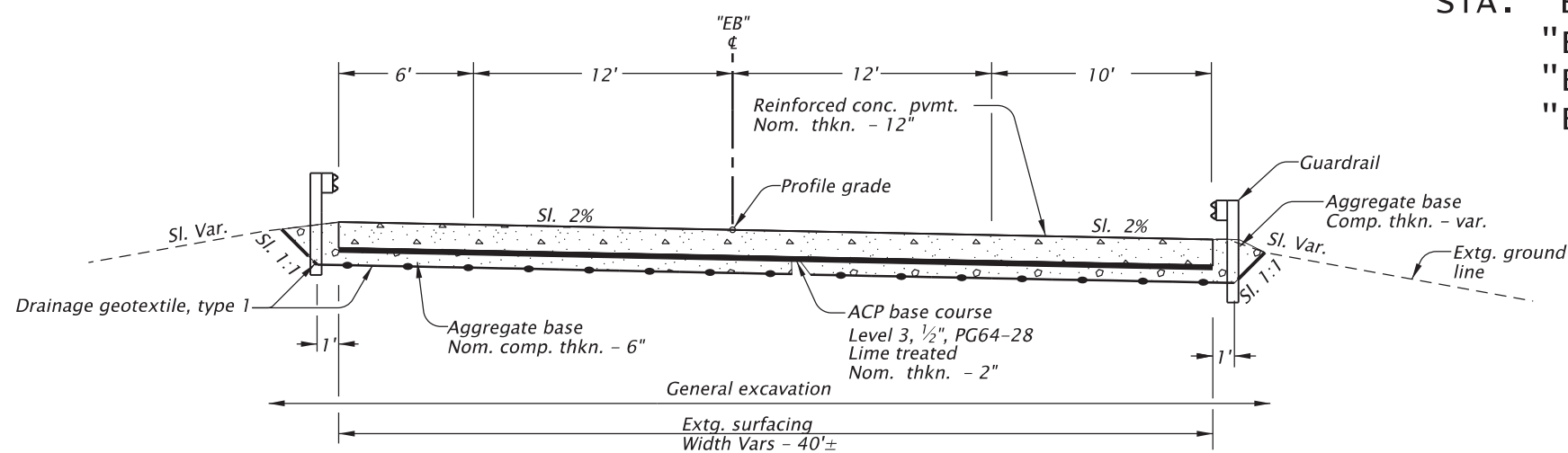
OREGON DEPARTMENT OF TRANSPORTATION		
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY		
Designer: THOMAS CLARK	Reviewer: BRET ELITHORP	
Drafter: THOMAS CLARK	Checker: BRET ELITHORP	
SURVEY CONTROL DATA		SHEET NO. AB03



STA. "EB" 1259+97.5	TO	STA. "EB" 1260+97.5	
"EB" 1267+62.5	TO	"EB" 1268+62.5	
"EB" 1268+62.5	TO	"EB" 1316+08.7	(NO WORK)
"EB" 1316+08.7	TO	"EB" 1317+08.7	
"EB" 1325+84.4	TO	"EB" 1326+84.4	



STA. "EB" 1260+97.5	TO	STA. "EB" 1261+37.5	
"EB" 1267+22.5	TO	"EB" 1267+62.5	
"EB" 1317+08.7	TO	"EB" 1317+48.7	
"EB" 1325+44.4	TO	"EB" 1325+84.4	



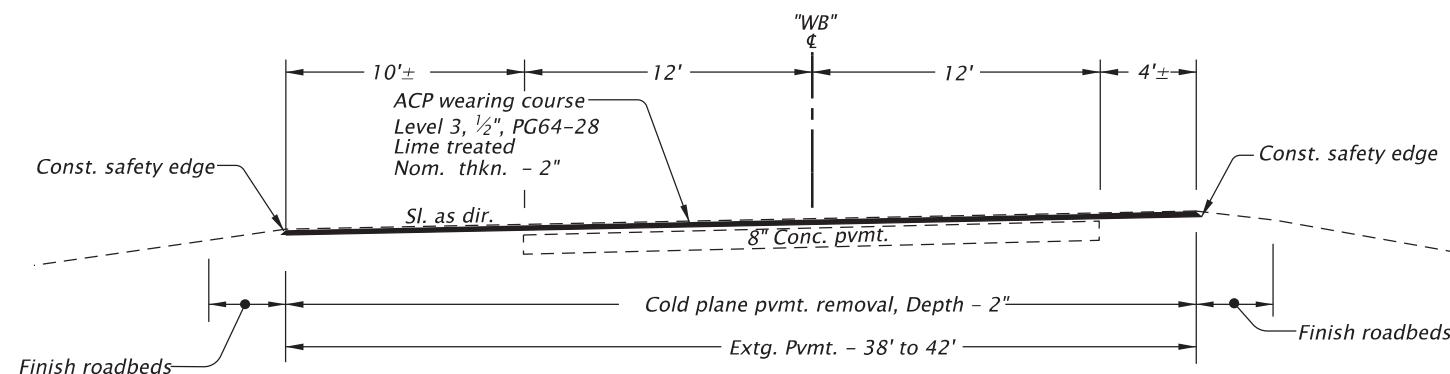
STA. "EB" 1261+37.5	TO	STA. "EB" 1261+88.0±	
"EB" 1261+88.0±	TO	"EB" 1266+74.0±	(STRUCTURE #09520A)
"EB" 1266+74.0±	TO	"EB" 1267+22.5	
"EB" 1317+48.7	TO	"EB" 1317+98.4±	
"EB" 1317+98.4±	TO	"EB" 1325+02.3±	(STRUCTURE #09521A)
"EB" 1325+02.3±	TO	"EB" 1325+44.4	

- NOTE:
1. For CRCP Pvm. details, see sht. BB01 thru. BB03.
 2. Side-slopes are shown as vert. to horiz.
 3. See dwg. no. RD610 for cold plane pvm. removal details.
 4. Replace all pavement markings removed during construction in-kind with plural component, sprayed, grooved. See dwg. nos TM500, TM521, TM547, TM551 & TM560.
 5. For Slope rounding, see dwg. no. RD150.

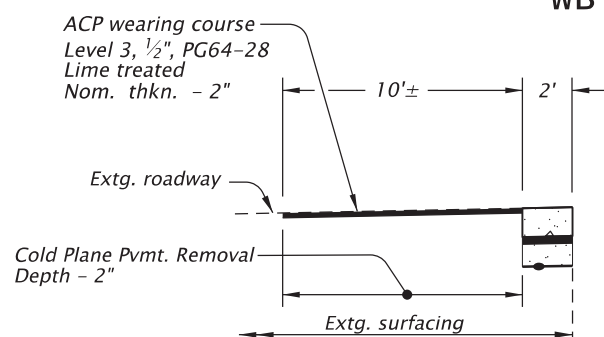


RENEWS: 06-30-2027

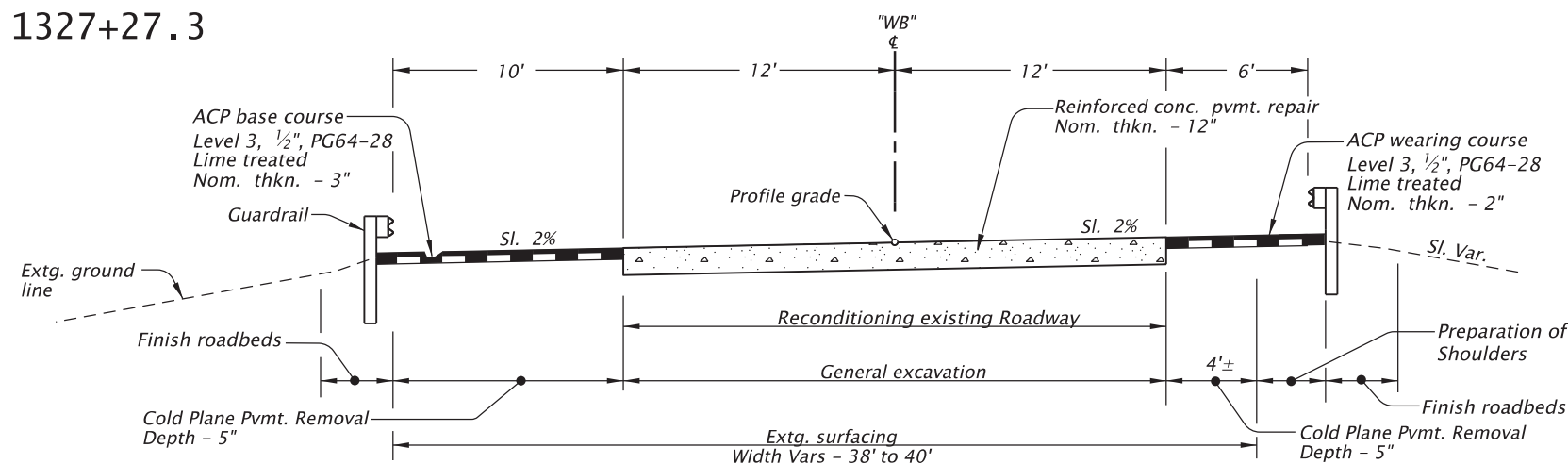
OREGON DEPARTMENT OF TRANSPORTATION 	
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Mark J. Kightlinger	Reviewer: Lauren Juzeler
Drafter: Mark J. Kightlinger	Checker: Lindsey McCullough
TYPICAL SECTIONS	
SHEET NO. BA01	



STA. "WB" 1261+04.0 To STA. "WB" 1262+04.0
 "WB" 1268+64.5 To "WB" 1269+64.5
 "WB" 1269+64.5 To "WB" 1317+88.8 (NO WORK)
 "WB" 1317+88.8 To "WB" 1318+88.8
 "WB" 1326+27.3 To "WB" 1327+27.3

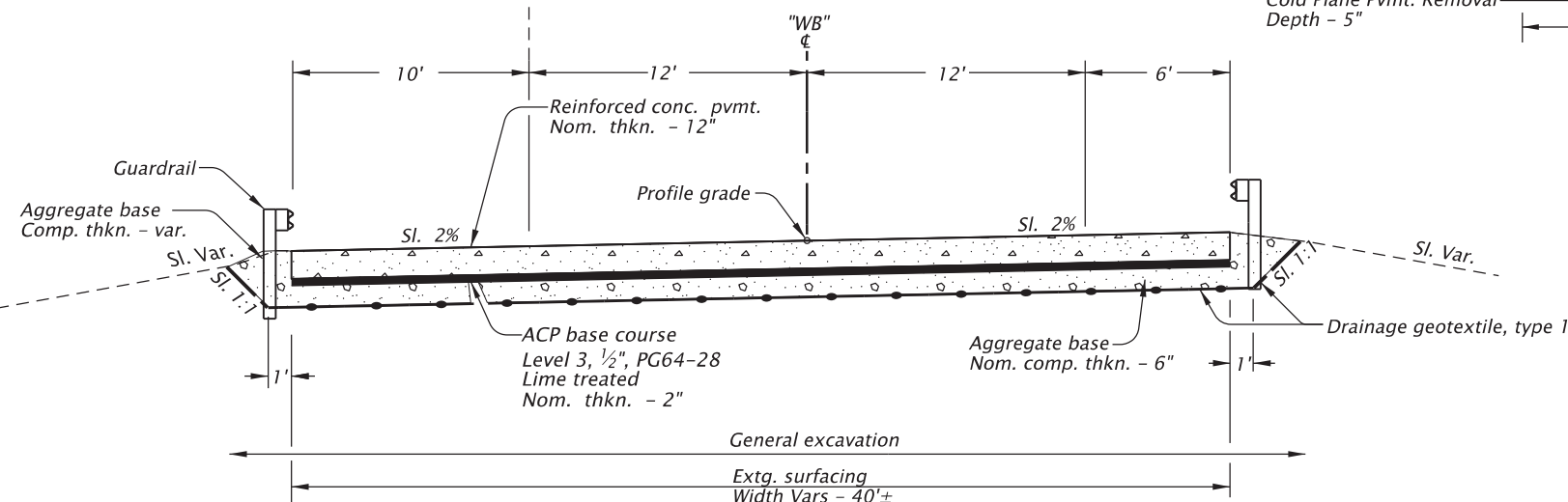


STA. "WB" 1262+44.0 To STA. "WB" 1262+87.5



STA. "WB" 1262+04.0 To STA. "WB" 1262+44.0
 "WB" 1268+24.5 To "WB" 1268+64.5
 "WB" 1318+88.8 To "WB" 1319+28.8
 "WB" 1325+87.3 To "WB" 1326+27.3

- NOTE:
1. For CRCP Pvmt. details, see sht. BB01 thru. BB03.
 2. Side-slopes are shown as vert. to horiz.
 3. See dwg. no. RD610 for cold plane pvmt. removal details.
 4. Replace all pavement markings removed during construction in-kind with plural component, sprayed, grooved. See dwg. nos TM500, TM521, TM547, TM551 & TM560.
 5. For Slope rounding, see dwg. no. RD150.



STA. "WB" 1262+44.0 To STA. "WB" 1262+87.5±
 "WB" 1262+87.5± To "WB" 1267+74.3± (STRUCTURE #09520)
 "WB" 1267+74.3± To "WB" 1268+24.5
 "WB" 1319+28.8 To "WB" 1319+77.4±
 "WB" 1319+77.4± To "WB" 1325+45.0± (STRUCTURE #09521)
 "WB" 1325+45.0± To "WB" 1325+87.3



RENEWS: 06-30-2027

FINAL ELECTRONIC DOCUMENT
 AVAILABLE UPON REQUEST

OREGON DEPARTMENT
 OF TRANSPORTATION



I-84: RIETH INTERCHANGE AND
 UMATILLA RIVER BRIDGES PROJECT
 OLD OREGON TRAIL HIGHWAY
 UMATILLA COUNTY

Designer: Mark J. Kightlinger

Reviewer: Lauren Juzeler

Drafter: Mark J. Kightlinger

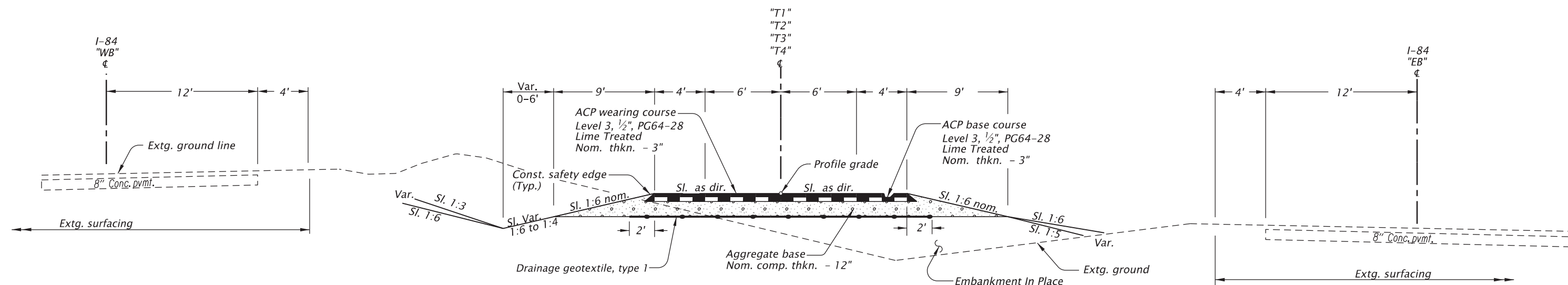
Checker: Lindsey McCullough

TYPICAL SECTIONS

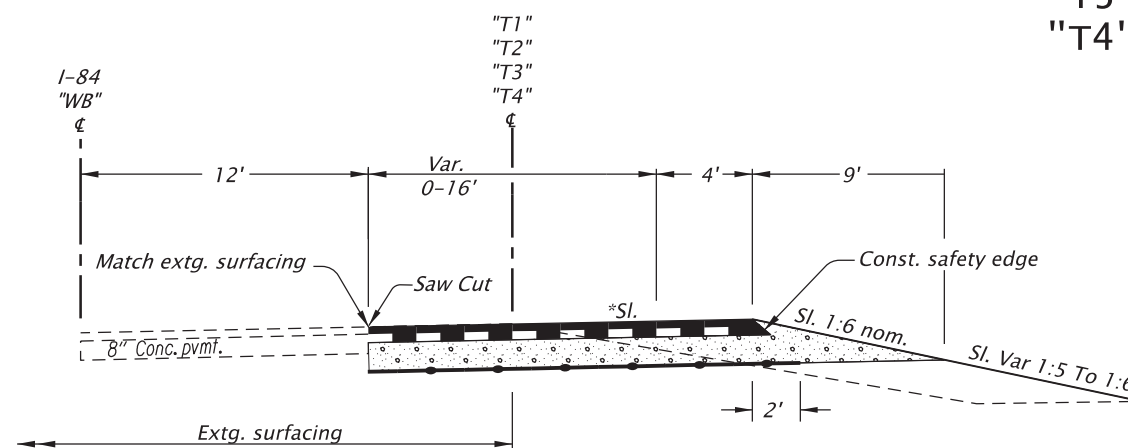
SHEET NO.

BA02

PERMANENT CROSSOVERS

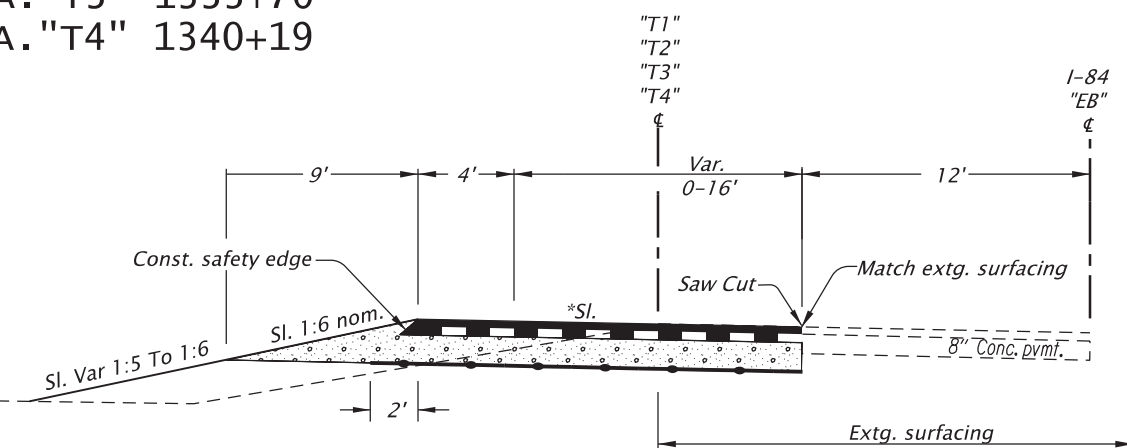


STA. "T1" 1234+10 To STA. "T1" 1238+22
 "T2" 1253+10 To STA. "T2" 1257+18
 "T3" 1329+77 To STA. "T3" 1333+70
 "T4" 1336+14 To STA. "T4" 1340+19



TYPICAL CROSSOVER MATCH IN
 (For surfacing details not shown, see section above)

STA. "T1" 1230+00 To STA. "T1" 1234+10 (TAPER)
 "T2" 1257+18 To STA. "T2" 1261+30 (TAPER)
 "T3" 1325+50 To STA. "T3" 1329+77 (TAPER)
 "T4" 1340+19 To STA. "T4" 1344+31 (TAPER)



TYPICAL CROSSOVER MATCH IN
 (For surfacing details not shown, see section above)

STA. "T1" 1238+22 To STA. "T1" 1242+30 (TAPER)
 "T2" 1249+00 To STA. "T2" 1253+10 (TAPER)
 "T3" 1333+70 To STA. "T3" 1337+81 (TAPER)
 "T4" 1332+00 To STA. "T4" 1336+14 (TAPER)

- NOTE:
1. For CRCP Pgmt. details, see sht. BB01 thru. BB03.
 2. Side-slopes are shown as vert. to horiz.
 3. See dwg. no. RD610 for cold plane pmt. removal details.
 4. Replace all pavement markings removed during construction in-kind with plural component, sprayed, grooved. See dwg. nos TM500, TM521, TM547, TM551 & TM560.
 5. For Slope rounding, see dwg. no. RD150.



RENEWS: 06-30-2027

FINAL ELECTRONIC DOCUMENT
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OREGON DEPARTMENT
 OF TRANSPORTATION



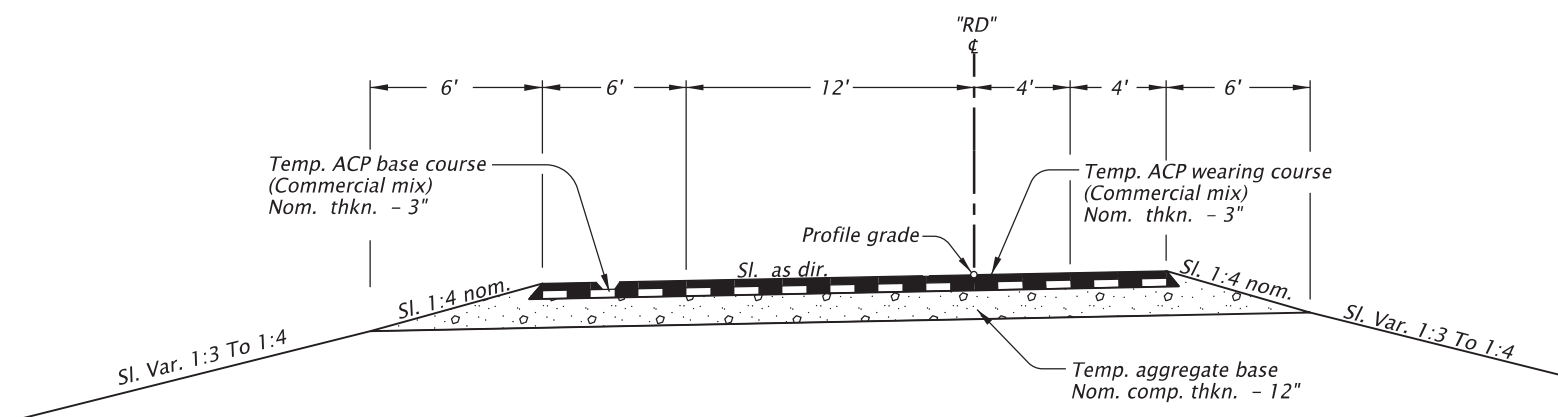
I-84: RIETH INTERCHANGE AND
 UMATILLA RIVER BRIDGES PROJECT
 OLD OREGON TRAIL HIGHWAY
 UMATILLA COUNTY

Designer: Mark J. Kightlinger Reviewer: Lauren Juzeler
 Drafter: Mark J. Kightlinger Checker: Lindsey McCullough

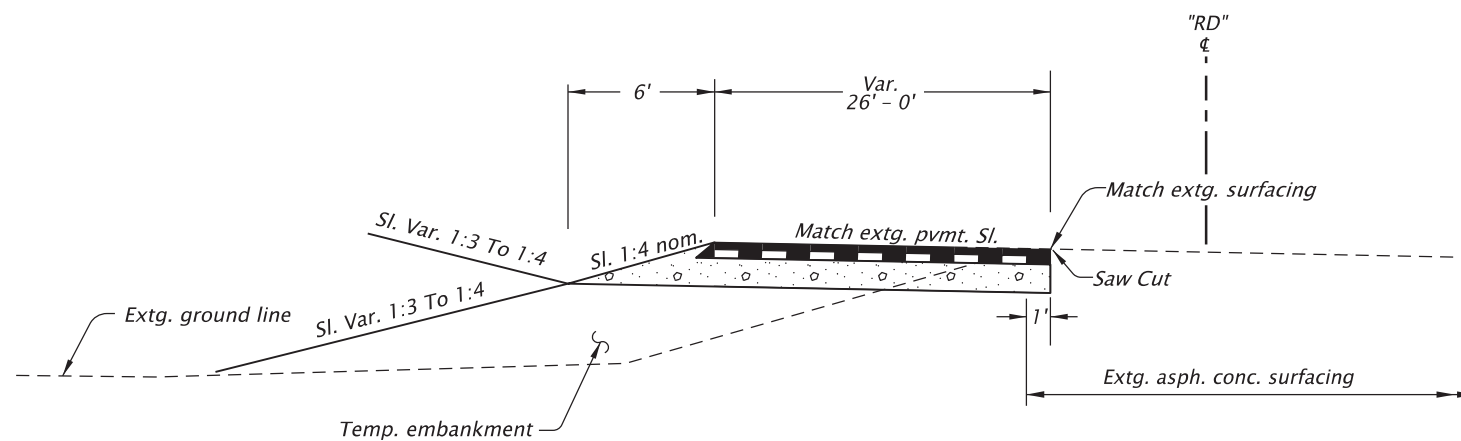
TYPICAL SECTIONS

SHEET NO.
 BA03

TEMPORARY RAMP



STA. "RD" 1229+54 TO STA. "RD" 1232+50



(For surfacing details not shown, see section above)
 STA. "RD" 1232+50 TO STA. "RD" 1234+00 (Taper section)

NOTE:
 1. Side-slopes are shown as vert. to horiz.



RENEWS: 06-30-2027

FINAL ELECTRONIC DOCUMENT
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OREGON DEPARTMENT
 OF TRANSPORTATION



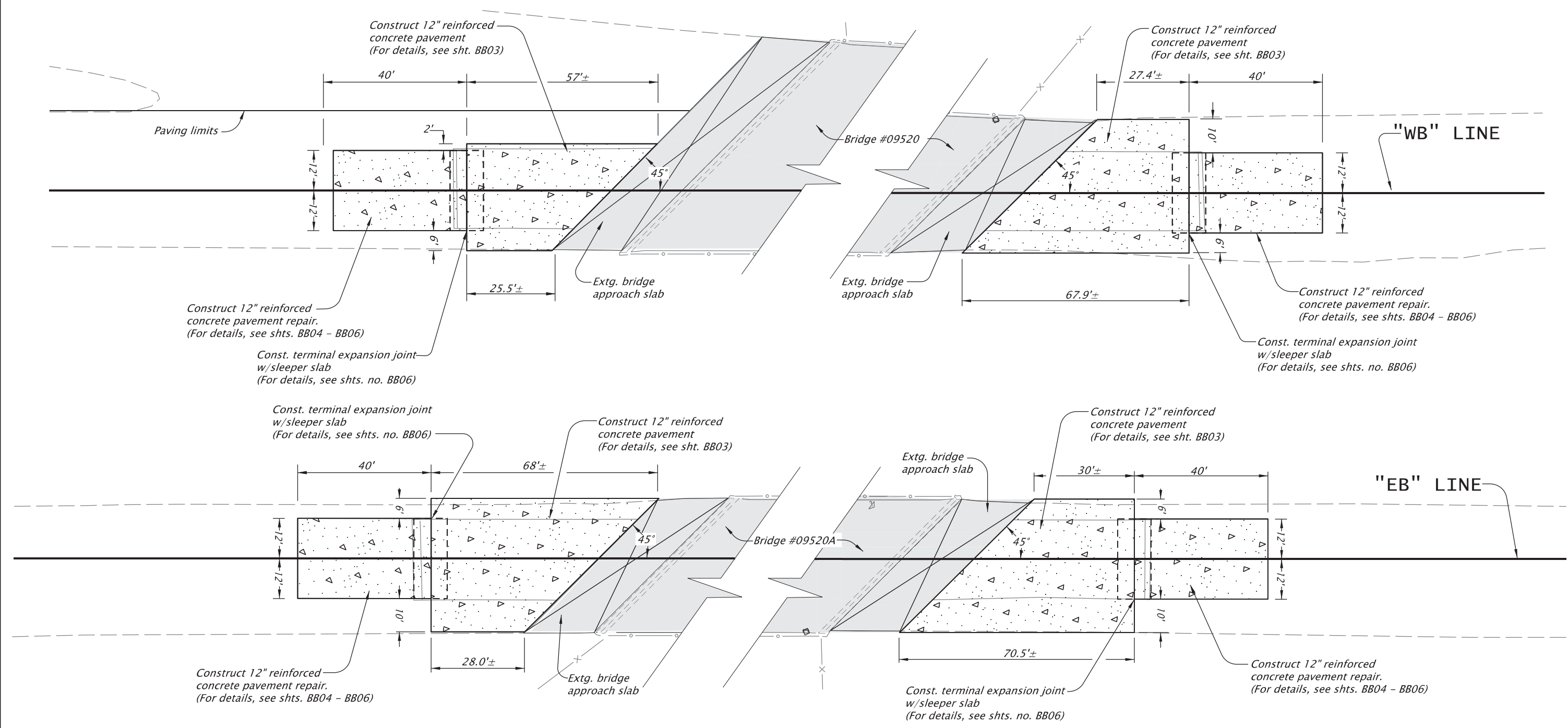
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 UMATILLA COUNTY

Designer: Mark J. Kightlinger Reviewer: Lauren Juzeler
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TYPICAL SECTIONS

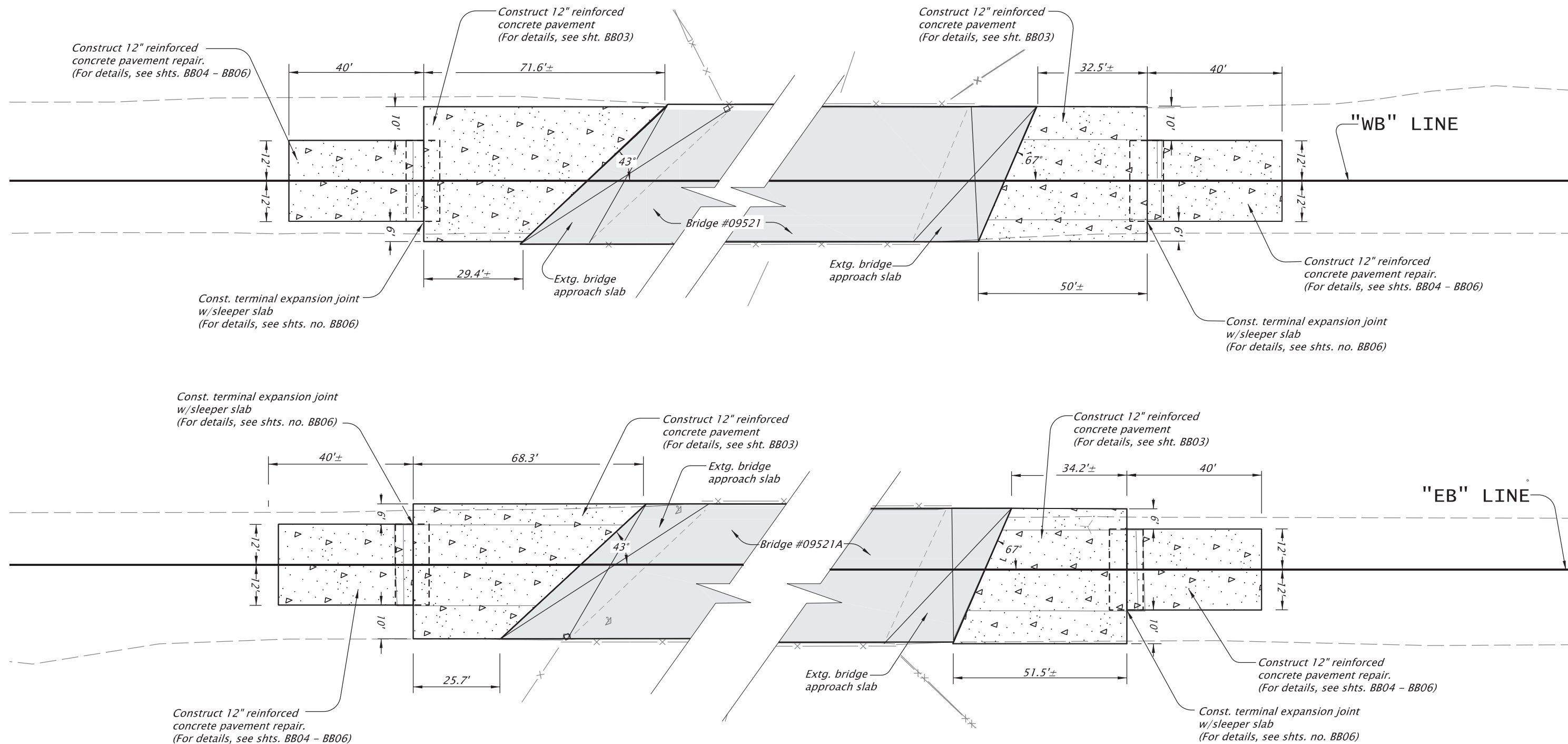
SHEET NO.
 BA04

EB/WB OVER RIETH HWY. & UPRR BRIDGES



OREGON DEPARTMENT OF TRANSPORTATION		
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY		
Designer: Mark J. Kightlinger	Reviewer: Lauren Juzeler	SHEET NO. BB01
Drafter: Mark J. Kightlinger	Checker: Lindsey McCullough	
DETAILS		

UMATILLA RIVER BRIDGES

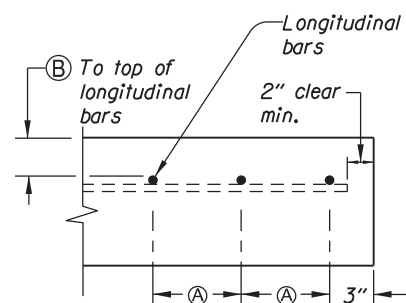


OREGON DEPARTMENT OF TRANSPORTATION		
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY		
Designer: Mark J. Kightlinger	Reviewer: Lauren Juzeler	
Drafter: Mark J. Kightlinger	Checker: Lindsey McCullough	
DETAILS		SHEET NO. BB02

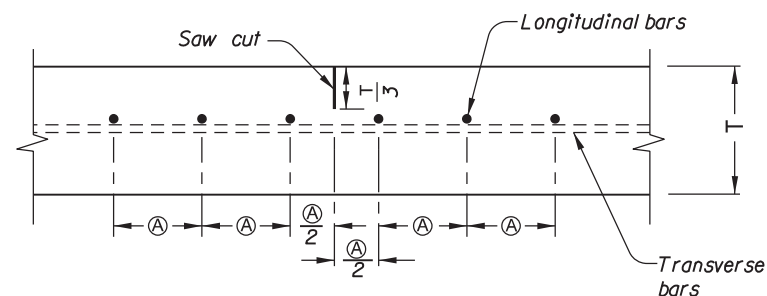
RENEWS: 06-30-2027

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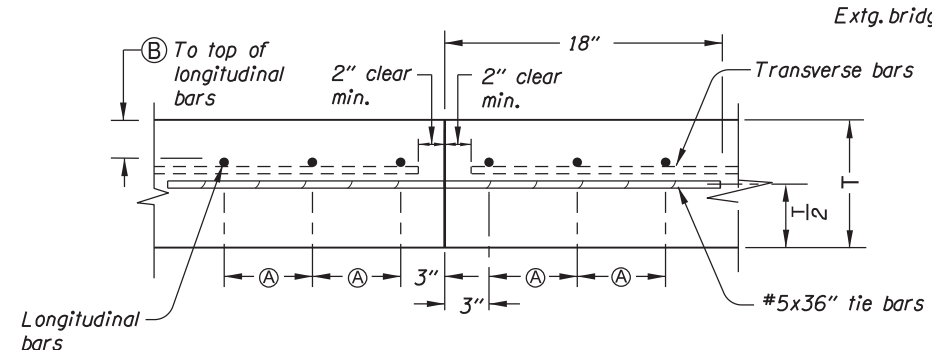
CONTINUOUSLY REINFORCED CONCRETE PAVEMENT



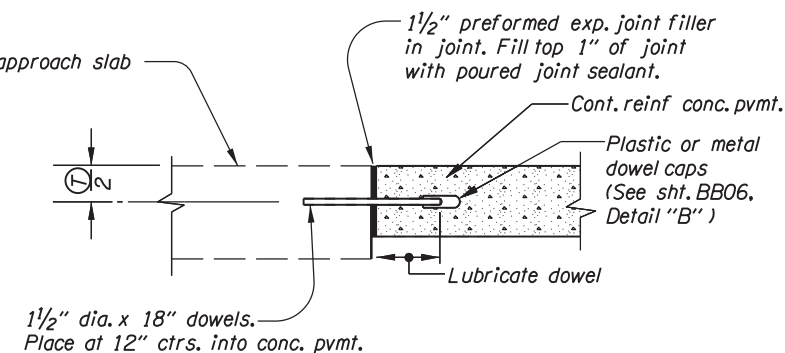
SECTION A-A



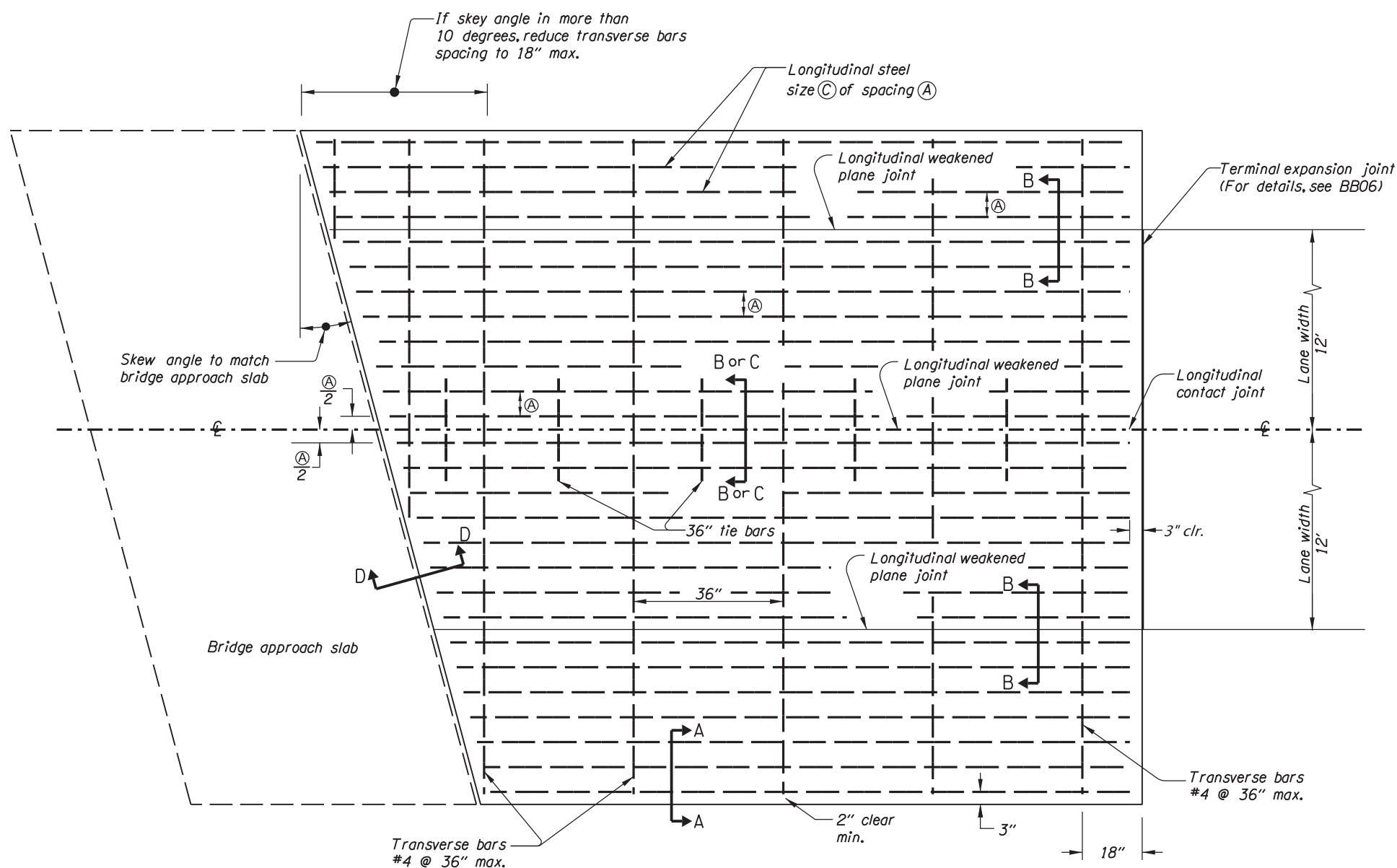
SECTION B-B
LONGITUDINAL WEAKENED PLANE JOINT



SECTION C-C
LONGITUDINAL CONTACT JOINT



SECTION D-D
EXPANSION JOINT



TYPICAL REINFORCED PAVEMENT LAYOUT
PLAN VIEW (NOT TO SCALE)

PVMT. THKN. T (in)	BAR SIZE	
	(A)	(B)
12"	6"	4"

(A) = Max. bar spacing
(B) = Depth to top of longitudinal bars

PAVEMENT AND STEEL DETAILS

GENERAL NOTES FOR ALL DETAILS:

1. Pavement width, pavement thickness, the crown cross-slope, and related details are shown elsewhere in the plans.
2. Install tie bars for longitudinal contact joint by drilling and securing according to the applicable specifications for resin bonded anchors. When approved by the Engineer, tie bars may be installed by inserting into plastic concrete at longitudinal contact joint.
3. Use reinforcing steel conforming to ASTM A706 or AASHTO M31 (ASTM A615) grade 60. Use full length bars as shown, and place them a minimum 2" clear of the nearest face of conc. unless shown or noted otherwise.
4. Use HPC4500 - 1 1/2" or 1" concrete.



RENEWS: 06-30-2027

OREGON DEPARTMENT OF TRANSPORTATION



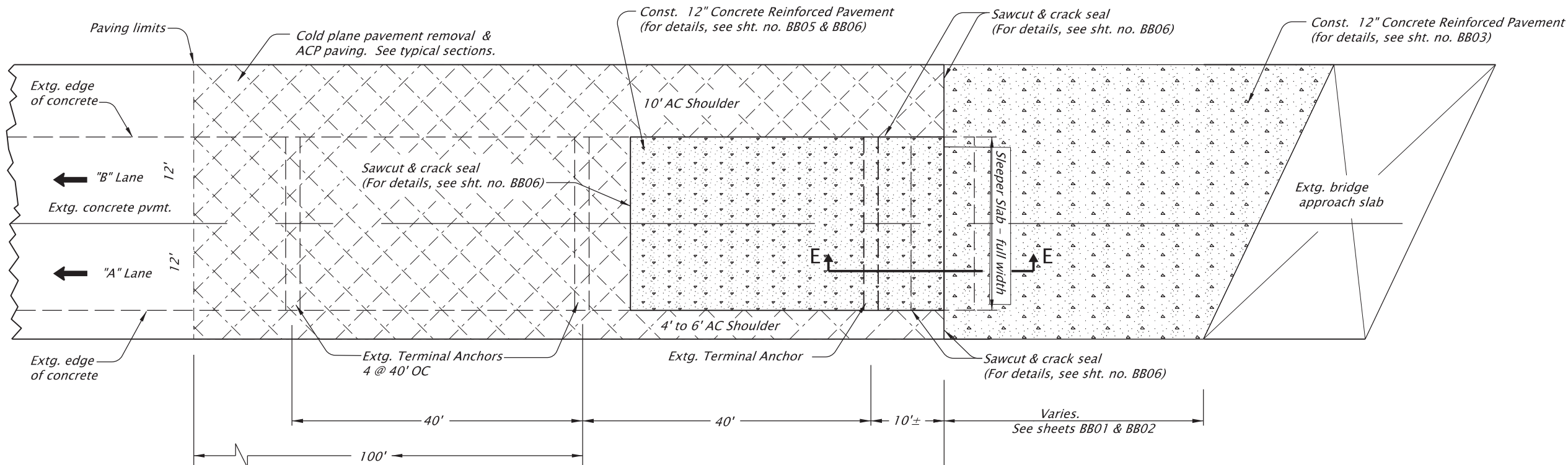
I-84: RIETH INTERCHANGE AND
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OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

Designer: Mark J. Kightlinger
Drafter: Mark J. Kightlinger

Reviewer: Lauren Juzeler
Checker: Lindsey McCullough

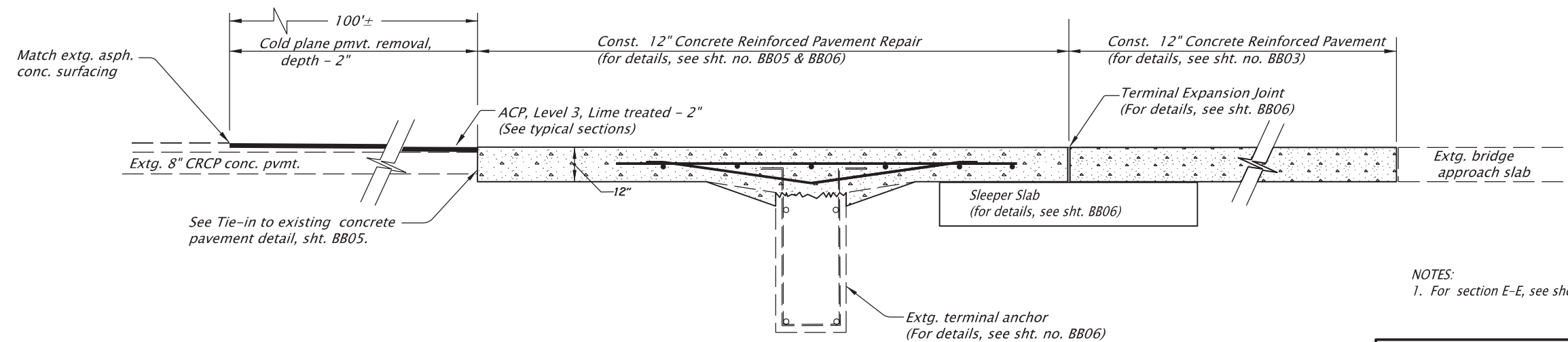
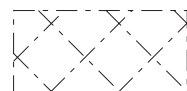
DETAILS

SHEET NO.
BB03



PLAN VIEW

Cold plane pavement removal & ACP paving limits shown thus:



SIDE VIEW

NOTES:
1. For section E-E, see sheet BB06.



RENEWS: 06-30-2027

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UMATILLA COUNTY

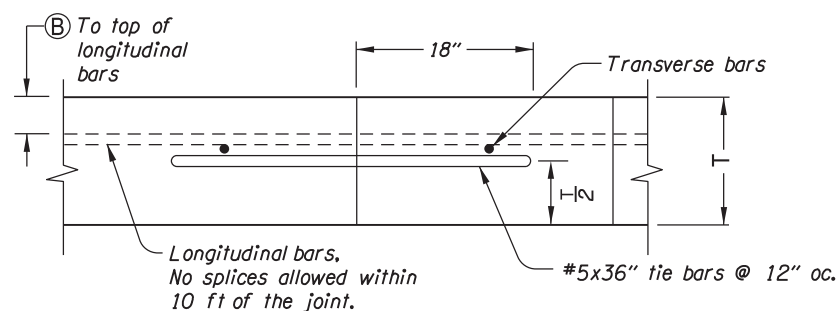
Designer: Mark J. Kightlinger
Drafter: Mark J. Kightlinger

Reviewer: Lauren Juzeler
Checker: Lindsey McCullough

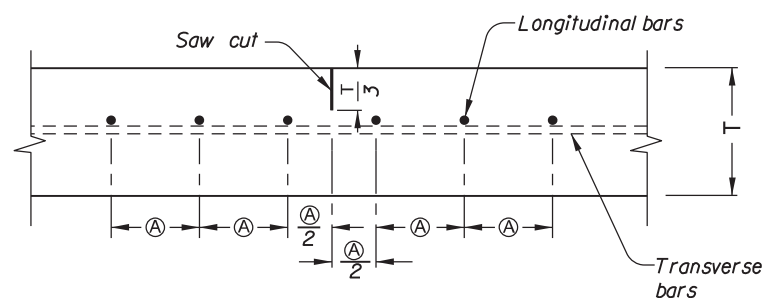
DETAILS

SHEET NO.
BB04

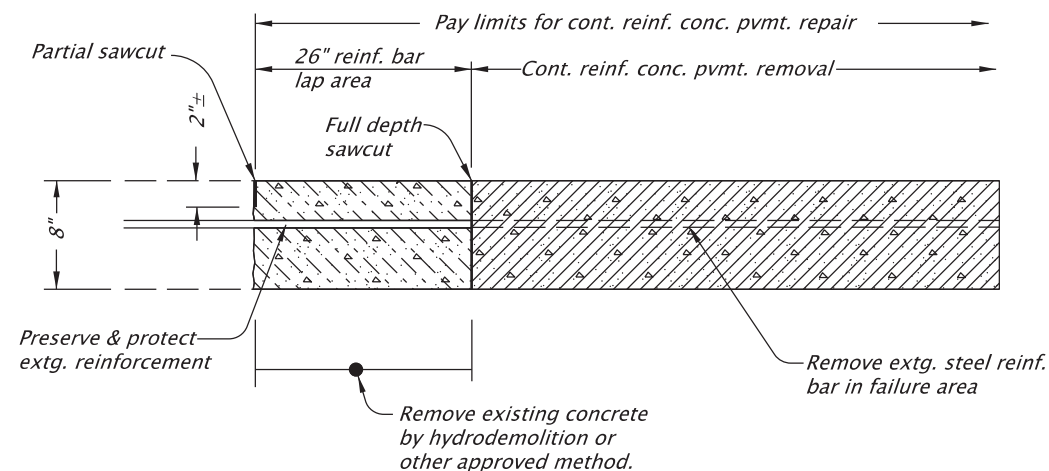
CONTINUOUSLY REINFORCED CONCRETE PAVEMENT REPAIR



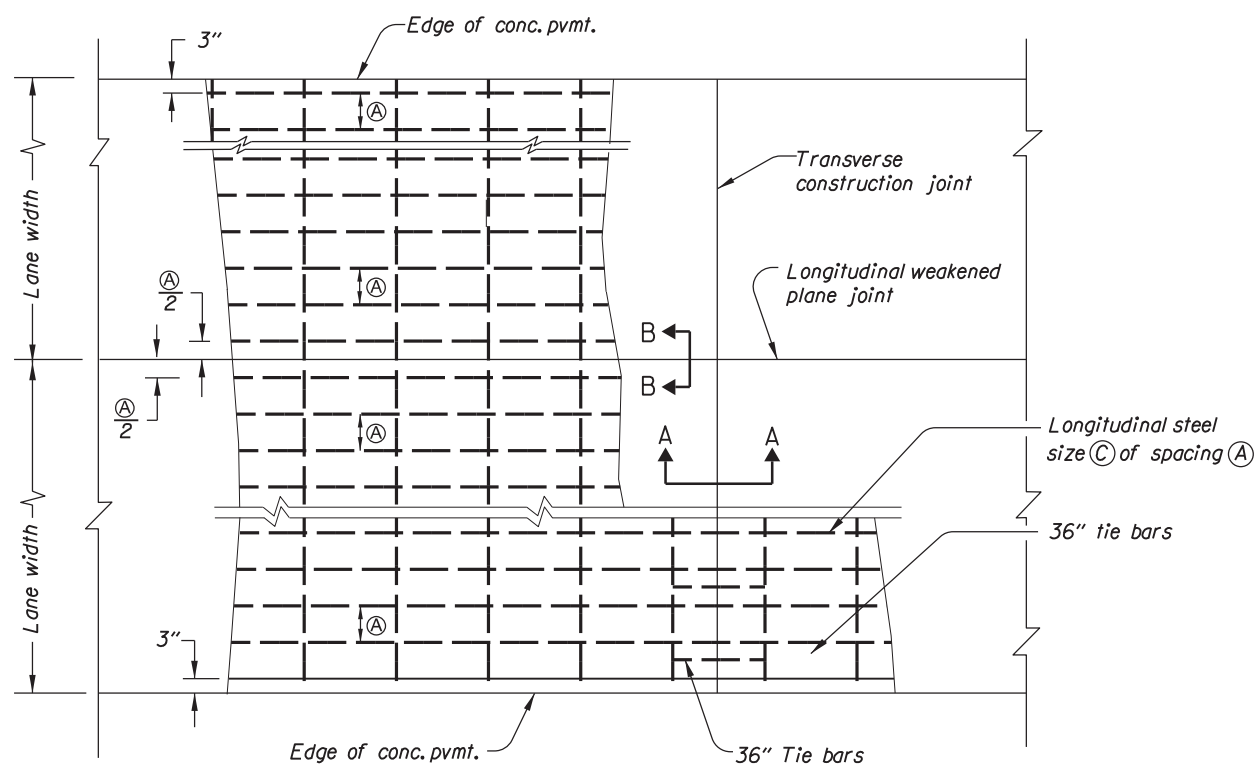
SECTION A-A
TRANSVERSE CONSTRUCTION JOINT



SECTION B-B
LONGITUDINAL WEAKENED PLANE JOINT



TIE-IN TO EXISTING CONCRETE PAVEMENT



TYPICAL PAVEMENT LAYOUT
PLAN VIEW (NOT TO SCALE)

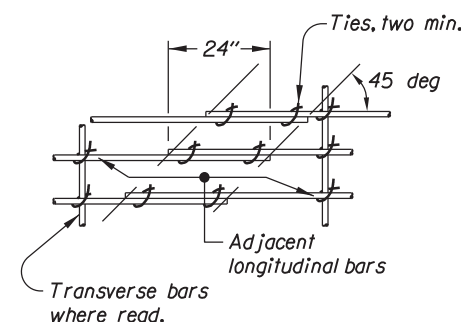
PVMT. THKN. ↑ (in)	A		C
	(in)		BAR SIZE
12"	6"	4"	#7

(A) = Max. bar spacing
(B) = Depth to top of longitudinal bars

PAVEMENT AND STEEL DETAILS

GENERAL NOTES FOR ALL DETAILS:

1. Pavement width, pavement thickness, the crown cross-slope, and related details are shown elsewhere in the plans.
2. Install tie bars for longitudinal contact joint by drilling and securing according to the applicable specifications for resin bonded anchors. When approved by the Engineer, tie bars may be installed by inserting into plastic concrete at longitudinal contact joint.
3. Use reinforcing steel conforming to ASTM A706 or AASHTO M31 (ASTM A615) grade 60. Use full length bars as shown, and place them a minimum 2" clear of the nearest face of conc. unless shown or noted otherwise.
4. Use HPC4500 - 1 1/2" or 1" concrete.



LAPPING METHOD



RENEWS: 06-30-2027

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OF TRANSPORTATION



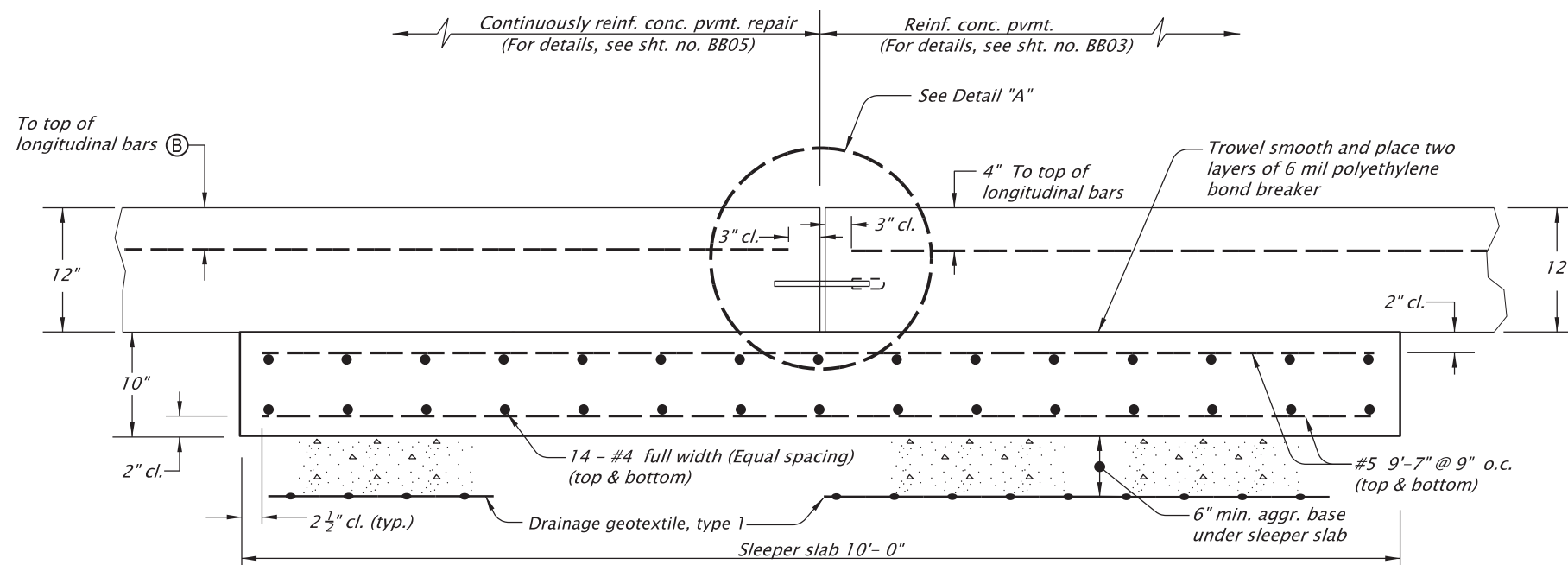
I-84: RIETH INTERCHANGE AND
UMATILLA RIVER BRIDGES PROJECT
OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

Designer: Mark J. Kightlinger
Drafter: Mark J. Kightlinger

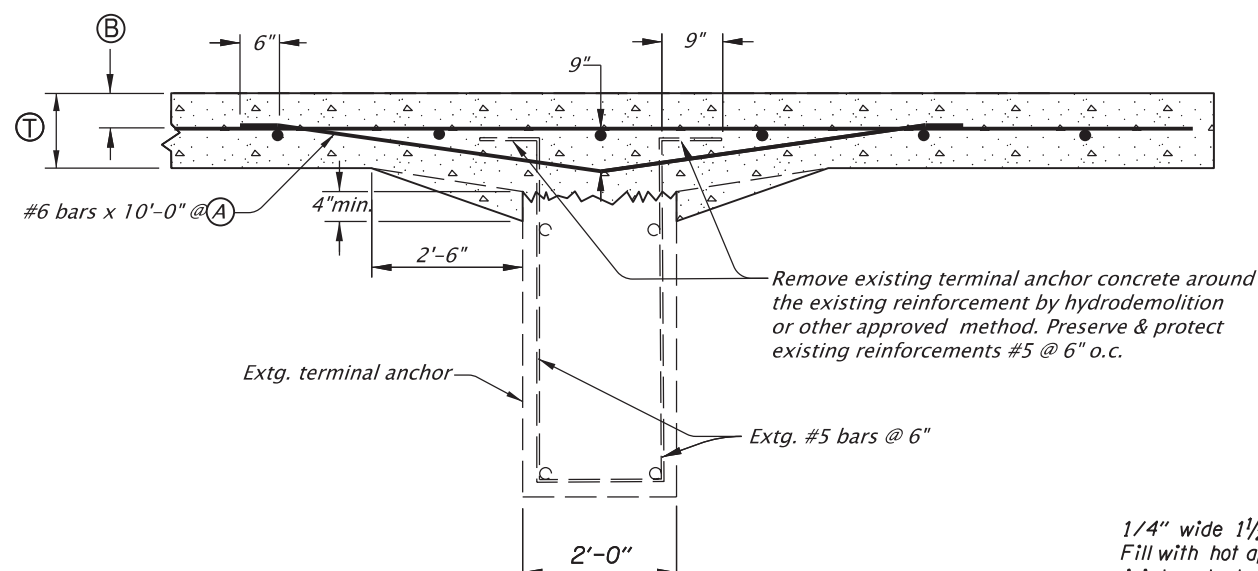
Reviewer: Lauren Juzeler
Checker: Lindsey McCullough

DETAILS

SHEET NO.
BB05

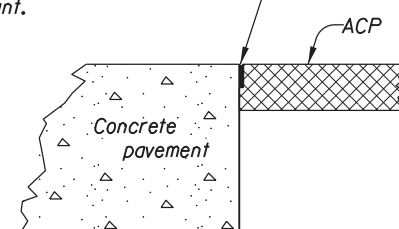


TERMINAL EXPANSION JOINT

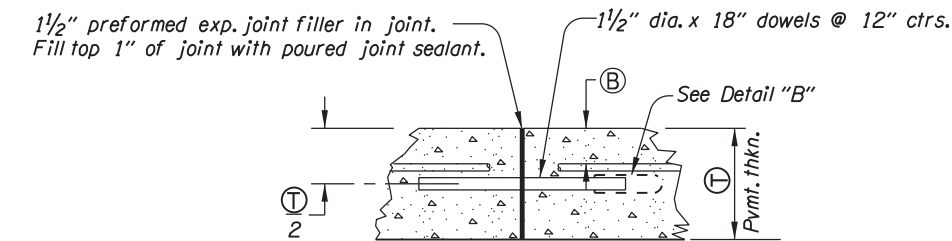


SECTION E-E
TERMINAL ANCHOR

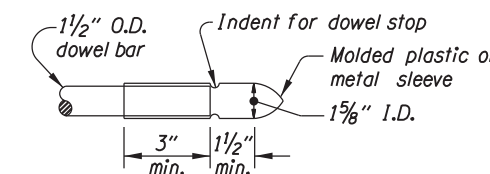
1/4" wide 1/2" deep sawcut.
Fill with hot applied joint sealant.



SAWCUT & CRACK SEAL DETAIL
Crack seal before opening to traffic.



DETAIL "A"



DETAIL "B"

GENERAL NOTES FOR ALL DETAILS:

1. Use reinforcing steel conforming to ASTM A706 or AASHTO M31 (ASTM A615) grade 60. Use full length bars as shown, and place them a minimum 2" clear of the nearest face of conc. unless shown or noted otherwise.
2. Use HPC4500 - 1 1/2" or 1" concrete.
3. Use min. Class 3300 - commercial concrete for the sleeper slab.
4. For pavement thickness (T), concrete cover (B), and longitudinal bar size (C), see Pavement and Steel Details on sheet BB05



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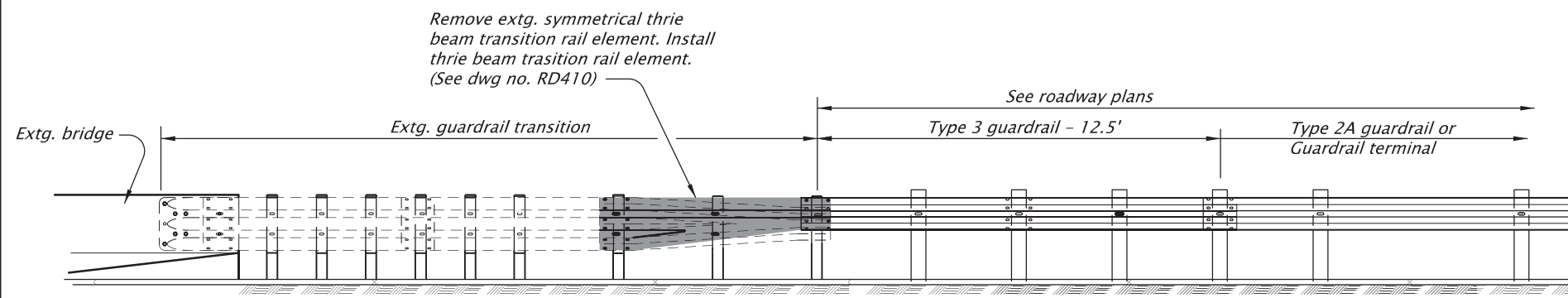
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UMATILLA COUNTY

Designer: Mark J. Kightlinger
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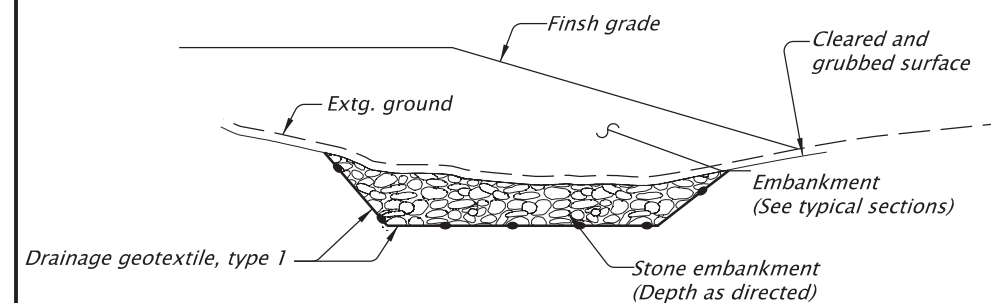
Reviewer: Lauren Juzeler
Checker: Lindsey McCullough

DETAILS

SHEET NO.
BB06

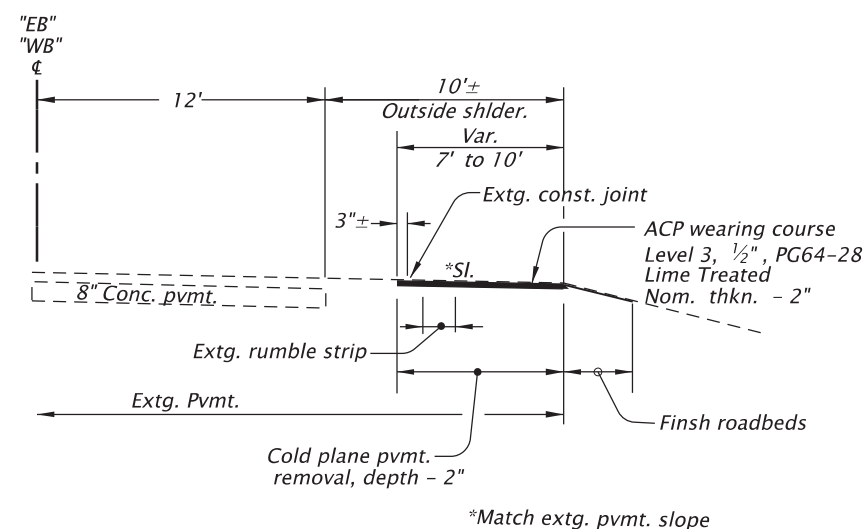


THRIE-BEAM TO W-BEAM TRANSITION



FOUNDATION EXCAVATION

Locations as directed



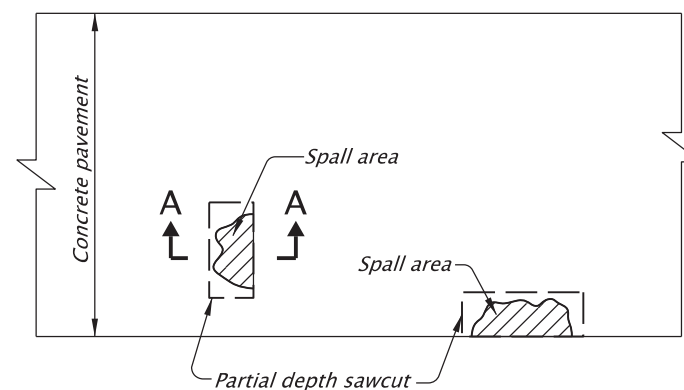
OUTSIDE SHOULDER

* STA. "EB" 1227+50	To STA. "EB" 1236+50
*"EB" 1260+00	To "EB" 1261+77
*"EB" 1266+52	To "EB" 1317+85
*"EB" 1324+93	To "EB" 1340+00
"WB" 1251+55	To "WB" 1261+42
*"WB" 1268+00	To "WB" 1272+00
"WB" 1272+00	To "WB" 1316+00
*"WB" 1316+00	To "WB" 1320+00

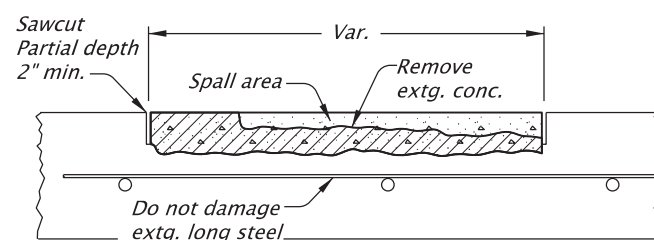
* Remove rumble strips prior to stage 1

EXISTING RUMBLE STRIP REMOVAL

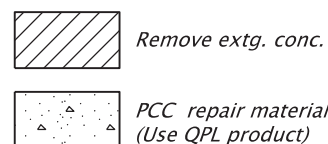
Addition locations as directed



PLAN VIEW



**SECTION A-A
PCC PAVEMENT SPALL REPAIR**



NOTES:

1. Spall repair areas are as directed by Engineer, and are anticipated for eastbound approaches to bridges. Perform work prior to stage 1.
2. 2" nominal depth saw cut at extg. joint may increase as identified by the Engineer.

SPALL REPAIR



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UMATILLA COUNTY

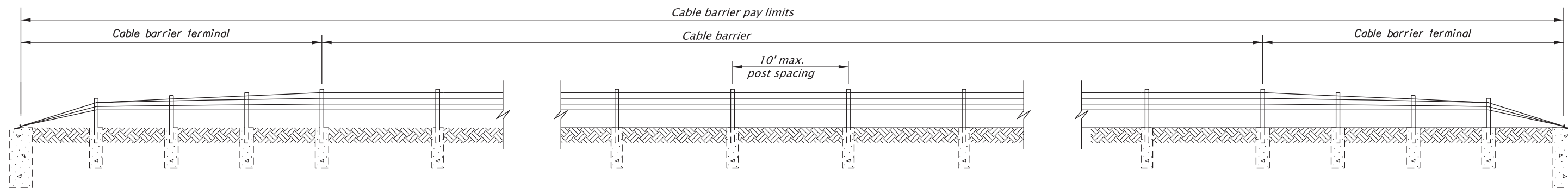
Designer: Mark J. Kightlinger
Drafter: Mark J. Kightlinger

Reviewer: Lauren Juzeler
Checker: Lindsey McCullough

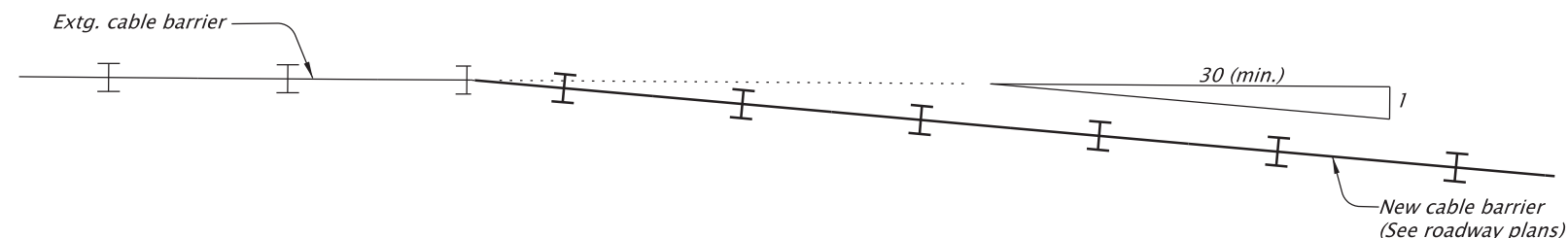
DETAILS

SHEET NO.
BB07

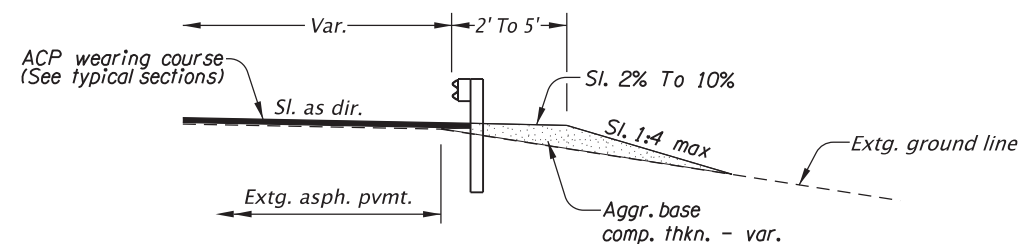
CABLE BARRIER



ELEVATION - TYPICAL LAYOUT
CABLE BARRIER SYSTEM



CABLE BARRIER TAPERS



WIDENING FOR GUARDRAIL FLARES

Locations as directed

For details not shown, see dwg. RD419

GENERAL NOTES:

1. Use Four Rope Test Level 3 (TL-3) Cable Barrier System.
2. Max. deflection of cable barrier shall be 8'.
3. Install cable barrier line post with post sleeve in concrete footing.
4. For details not shown, see manufacturer's requirements for Cable Barrier System.
5. Install according to manufacturer's recommendations. Provide Shop Drawings to Engineer.
6. Install two-way retro-reflective post cap at 50' spacing. Reflective material shall be the color of the adjacent edge line.
7. Shift line post to avoid underground utilities.



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OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

Designer: Mark J. Kightlinger

Reviewer: Lauren Juzeler

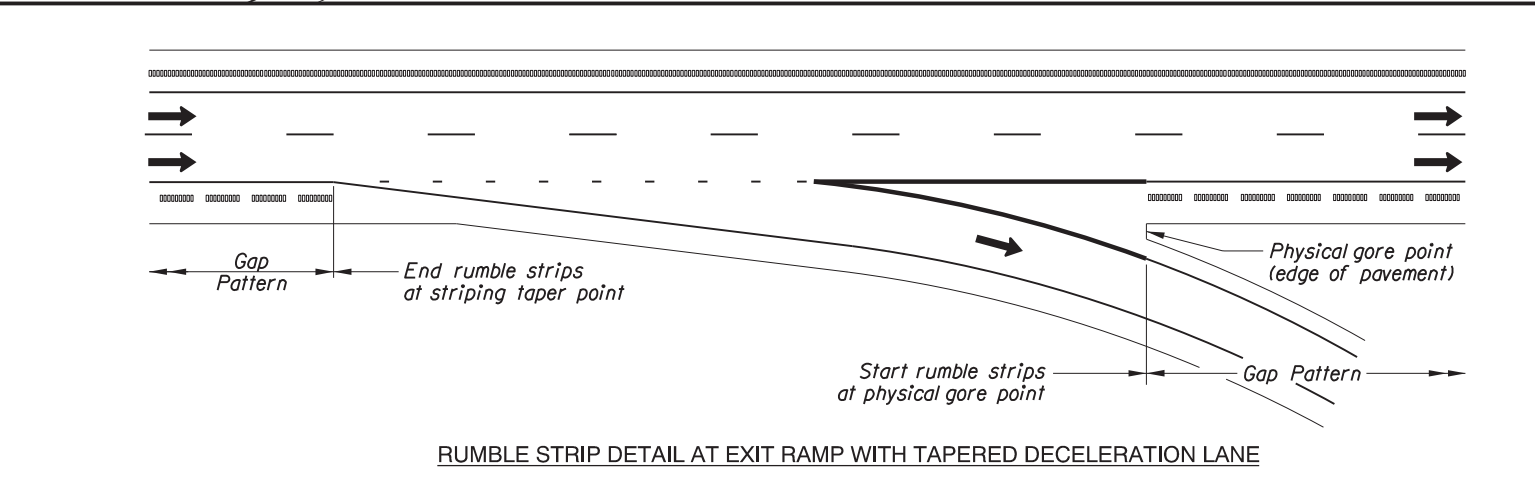
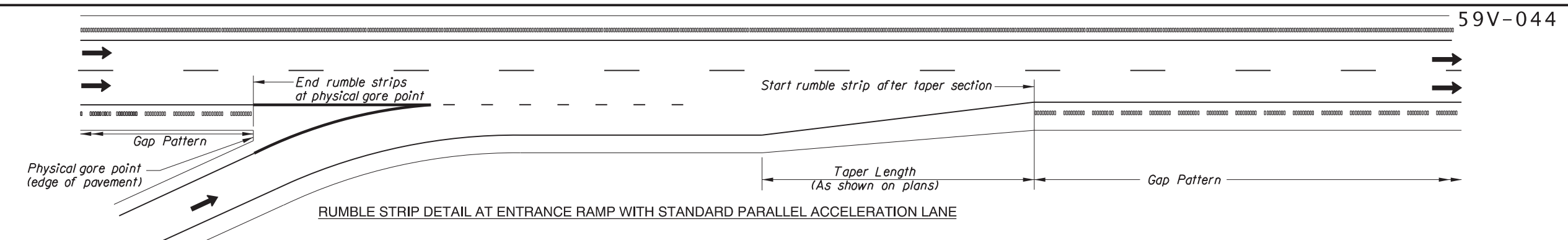
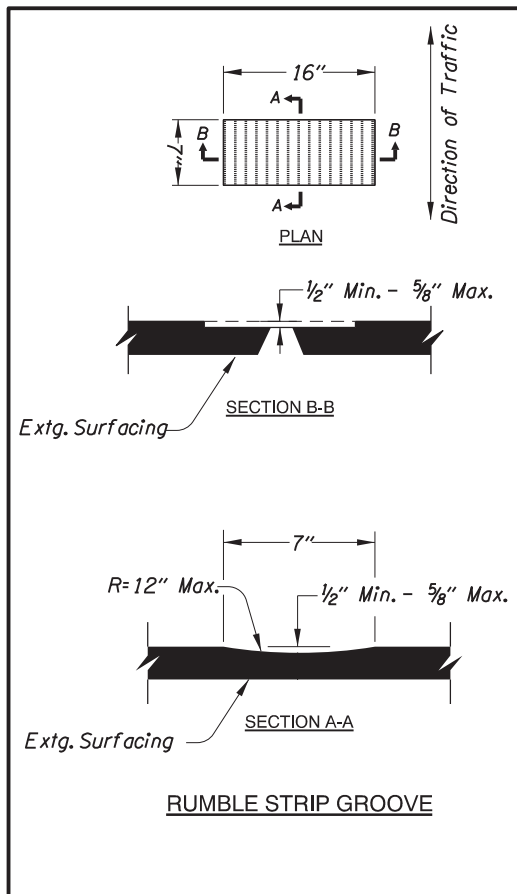
Drafter: Mark J. Kightlinger

Checker: Lindsey McCullough

DETAILS

SHEET NO.

BB08

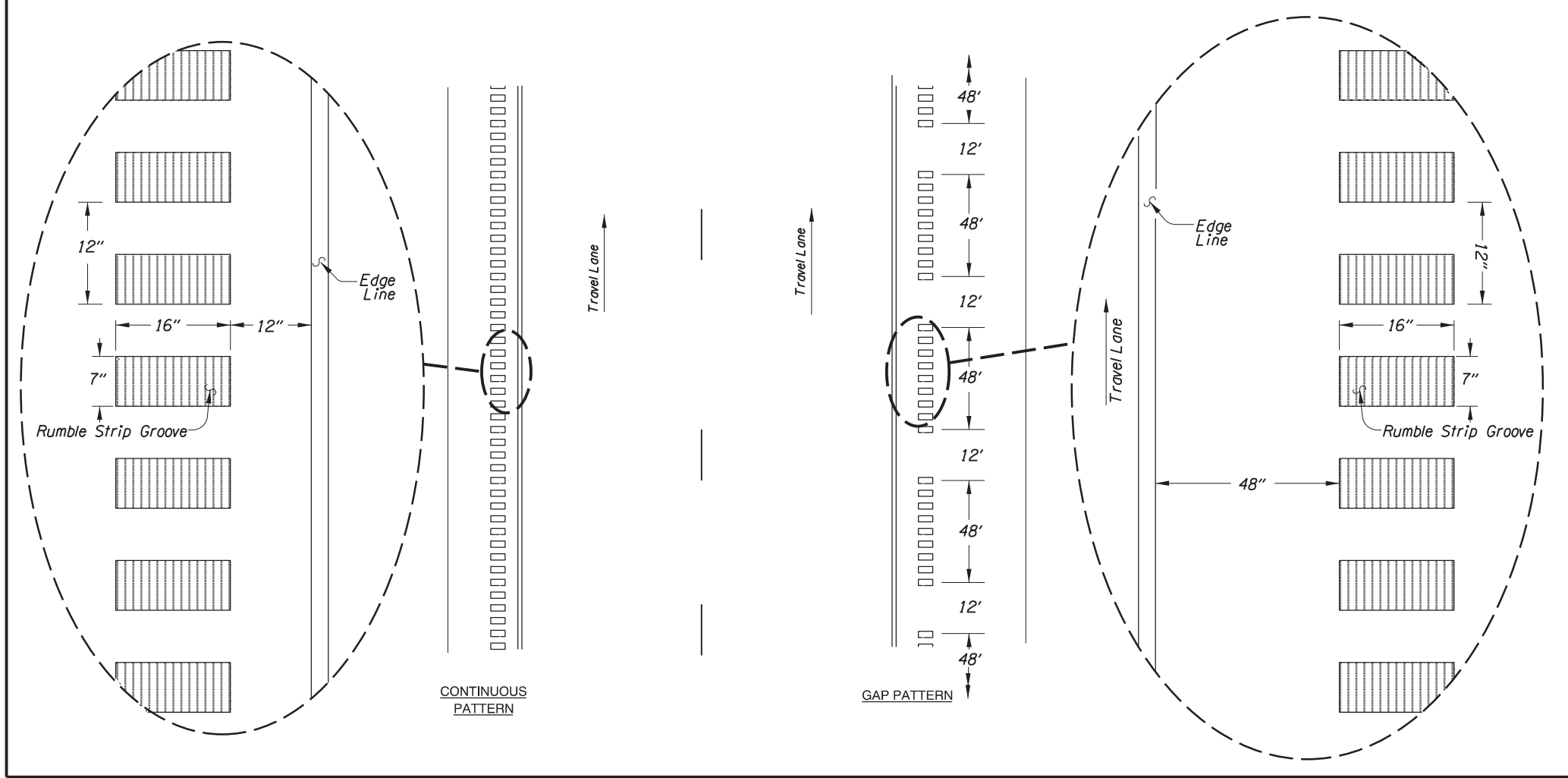


RUMBLE STRIP LEGEND

- Continuous Pattern
- Gap Pattern

GENERAL NOTES:

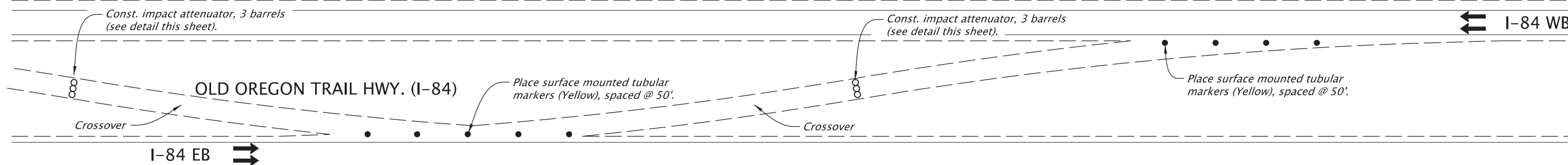
1. Install rumble strips in the following locations:
 - Sta. "EB" 1227+50 To Sta. "EB" 1236+50 (outside shoulder)
 - Sta. "EB" 1267+25 To Sta. "EB" 1317+45 (outside shoulder)
 - Sta. "EB" 1325+50 To Sta. "EB" 1340+00 (outside shoulder)
 - Sta. "WB" 1251+55 To Sta. "WB" 1261+40 (outside shoulder)
 - Sta. "WB" 1268+25 To Sta. "WB" 1319+25 (outside shoulder)
2. Omit rumble strips:
 - On Portland cement concrete surfaces.
 - At interchange ramps as shown.
 - Other locations as directed.
 - At medium crossovers
3. Fog coat new rumble strips placed on older existing ACP surfaces.
4. Install rumble strips after traffic control plan, stage II is complete.



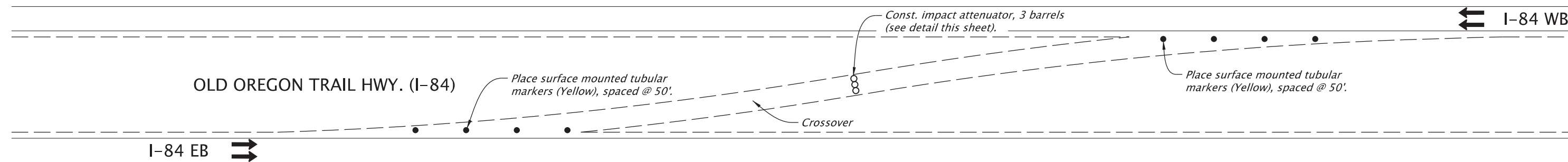
<p>OREGON DEPARTMENT OF TRANSPORTATION</p>	
<p>I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT</p> <p>OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY</p>	
Designer: Mark J. Kightlinger Drafter: Mark J. Kightlinger	Reviewer: Lauren Juzeler Checker: Lindsey McCullough
<p>DETAILS</p>	
SHEET NO. BB09	

RENEWS: 06-30-2027

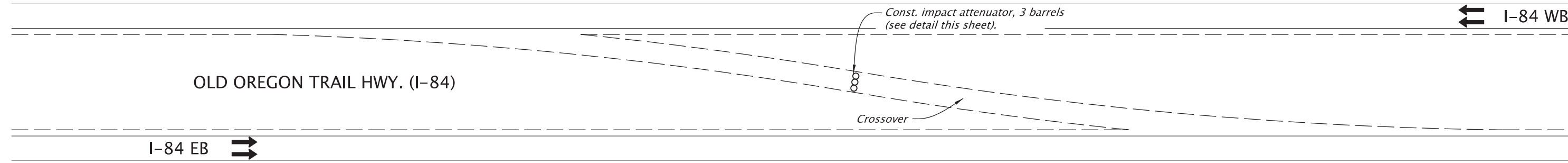
FINAL ELECTRONIC DOCUMENT
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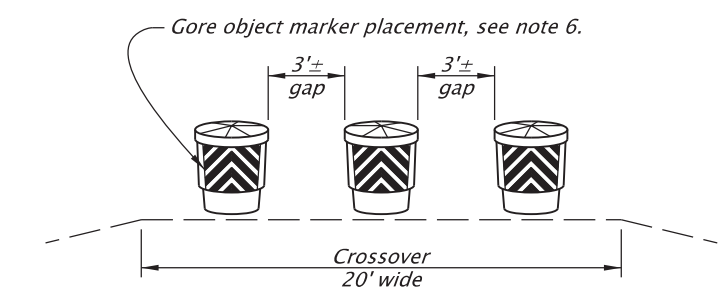
OPTION 1 LAYOUT
Scale: 1"=100'



OPTION 2 LAYOUT
Scale: 1"=100'



OPTION 3 LAYOUT
Scale: 1"=100'



IMPACT ATTENUATOR LAYOUT

DETAIL NOTES:

1. Remove temporary pvmt. markings & delineators from crossover.
2. Fog coat the asphalt wearing surface of the crossover.
4. Place surface mounted tubular markers offset 10' from yellow fog lines, across the entrance of each crossover (as shown above).
5. Use Impact attenuator (barrels), TL3 on the QPL (install at locations as shown above).
6. The object markers (on impact attenuator barrels), shall be 1/16" thick aluminum sheeting approx. 24" wide & 30" tall, and covered with yellow encapsulated lens sheeting. Black stripes 5" wide shall be silk-screened on the sheeting at a 45° slope and with 4" space between stripes. Object markers shall be placed on opposite sides of each barrel (two per barrel).
7. Place 400 lbs of sand in each barrel. Mix sand with 5% rock salt by weight to prevent freezing.

CROSSOVER CLOSURE



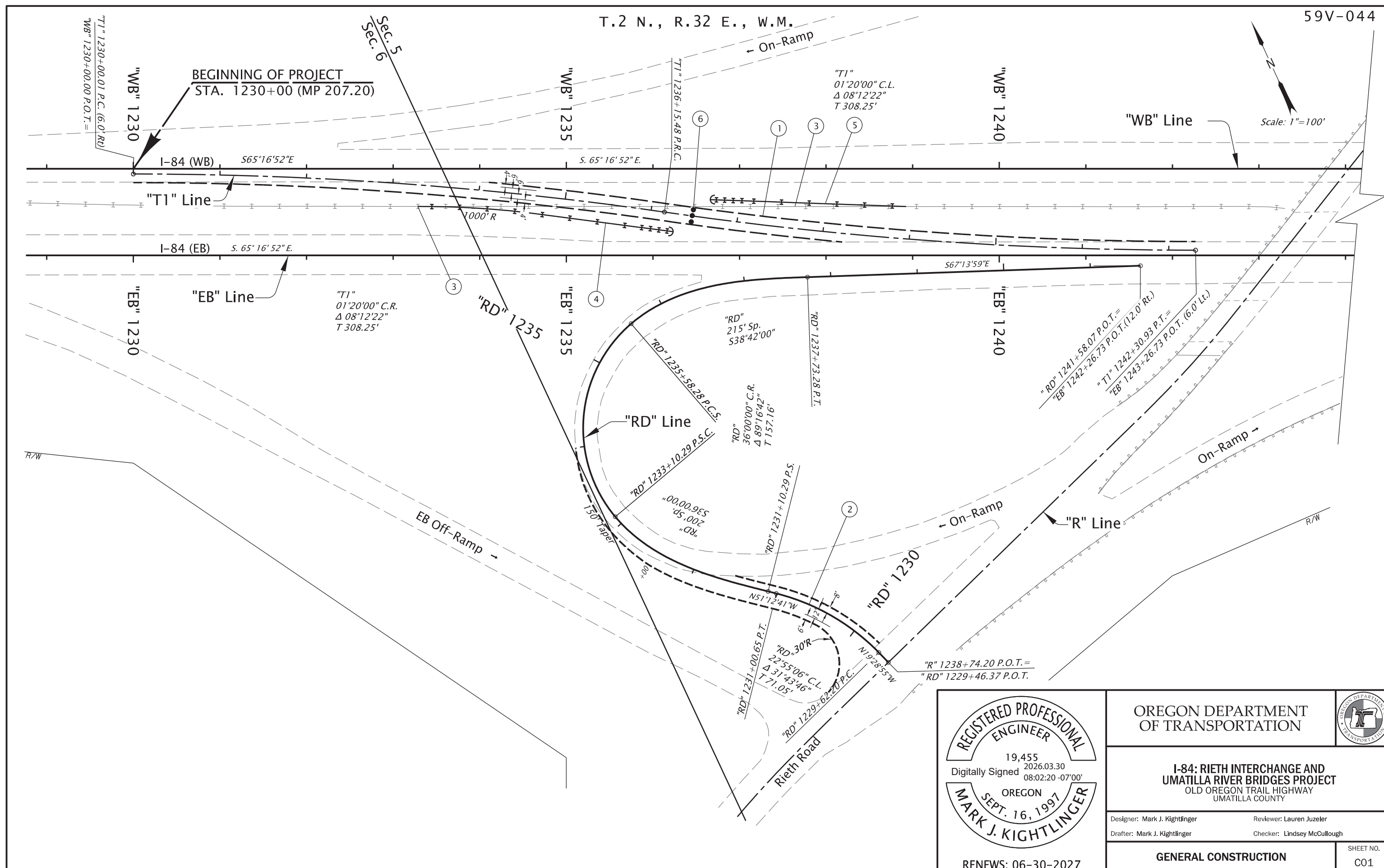
RENEWS: 06-30-2027

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Designer: Mark J. Kightlinger Drafter: Mark J. Kightlinger	Reviewer: Lauren Juzeler Checker: Lindsey McCullough	SHEET NO. BB10
DETAILS		

T.2 N., R.32 E., W.M.

Scale: 1"=100'



REGISTERED PROFESSIONAL
ENGINEER
19,455
Digitally Signed 2026.03.30
08:02:20 -07'00'
OREGON
SEPT. 16, 1997
MARK J. KIGHTLINGER

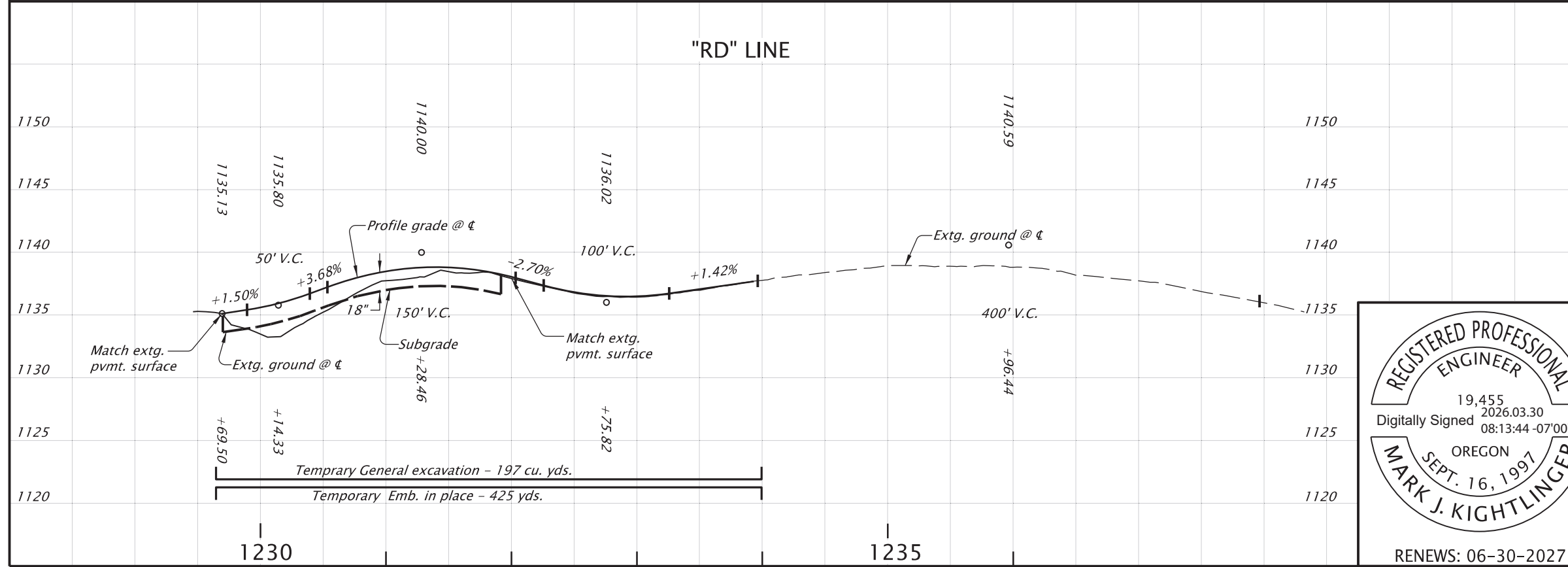
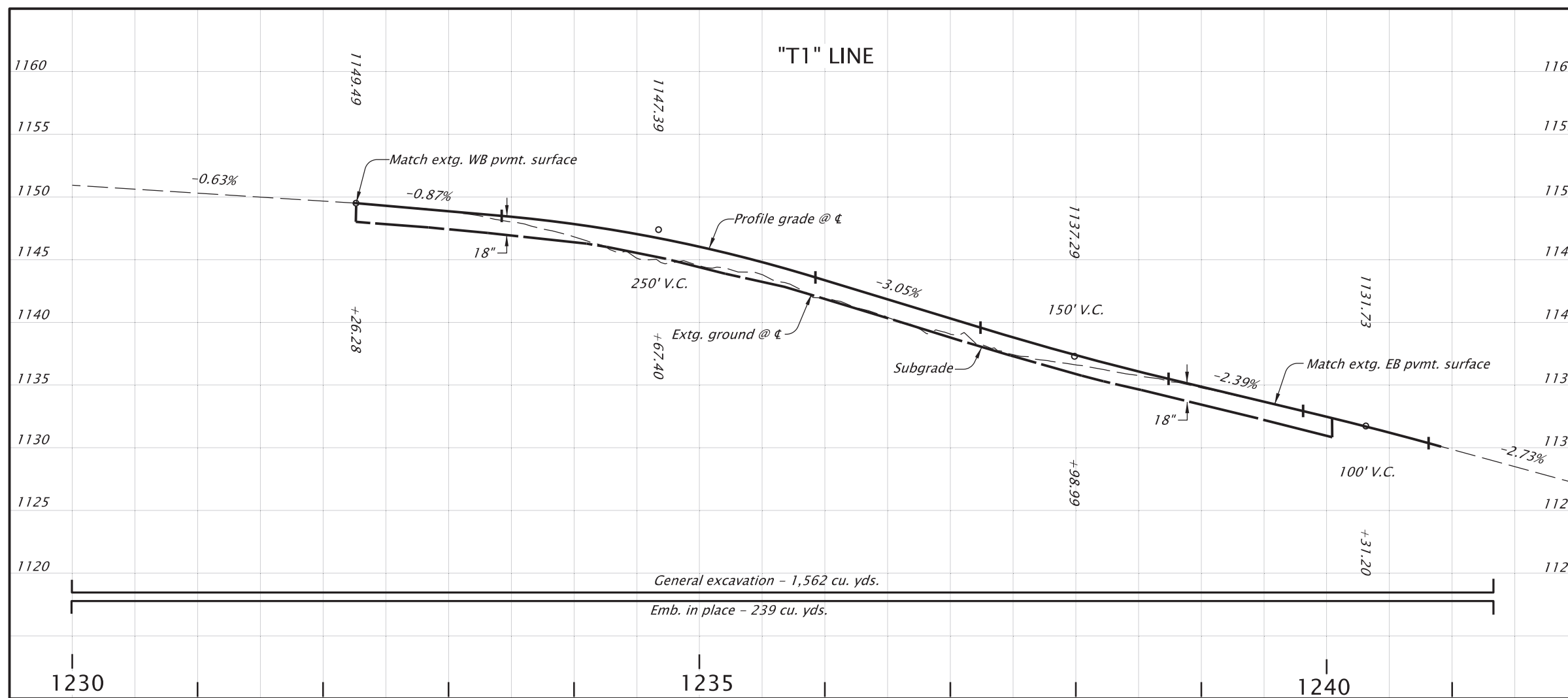
RENEWS: 06-30-2027

OREGON DEPARTMENT OF TRANSPORTATION

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OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

Designer: Mark J. Kightlinger Reviewer: Lauren Juzeler
Drafter: Mark J. Kightlinger Checker: Lindsey McCullough

GENERAL CONSTRUCTION SHEET NO. C01



CONSTRUCTION NOTES

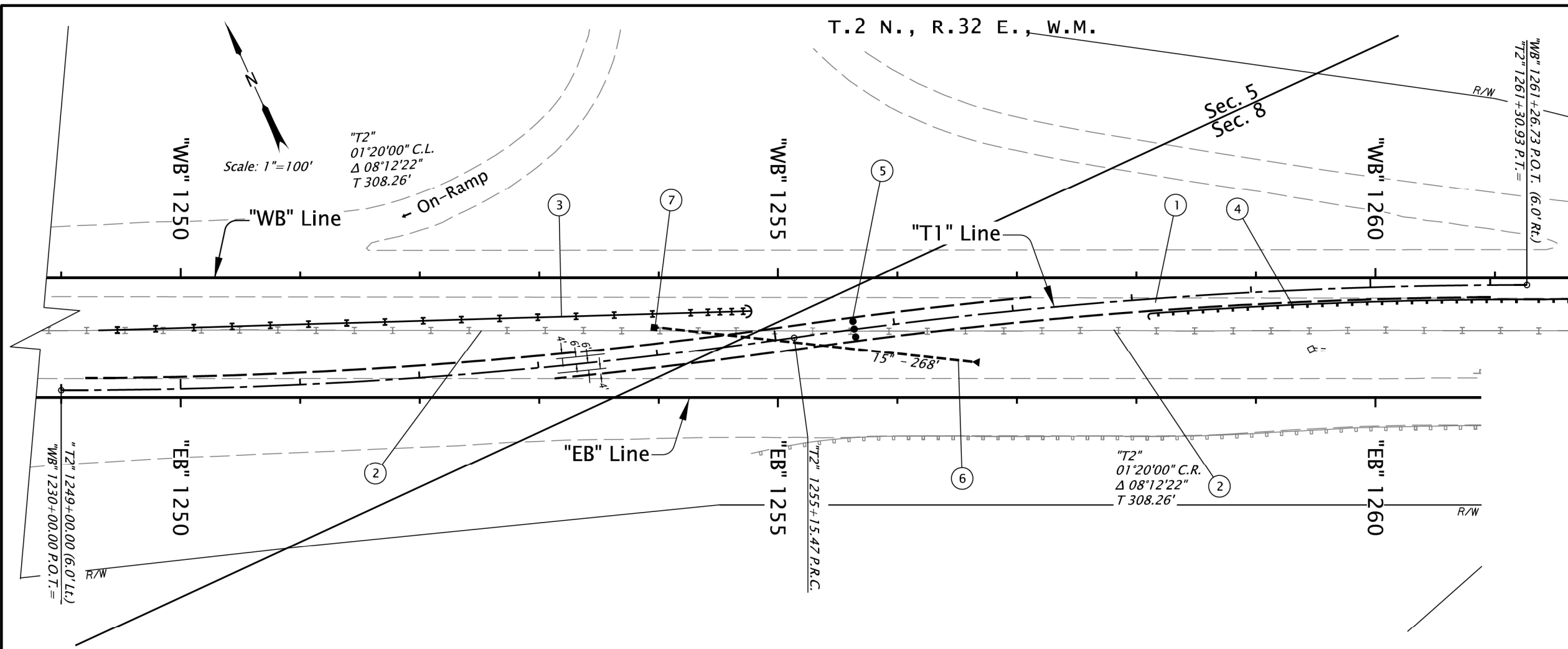
- ① Const. crossover
- ② Const. temporary ramp connection
- ③ Sta. "WB" 1233+29± To Sta. 1238+92±
Remove cable barrier - 563'±
- ④ Sta. "EB" 1233+29 To Sta "EB" 1236+23, Lt.
Const. cable barrier - 260'
Const. cable barrier terminal
Conn. to extg. cable barrier
(For details, see sht. BB08)
- ⑤ Sta. "WB" 1236+66 To Sta "WB" 1238+92, Rt.
Const. cable barrier - 190'
30:1 Flare rate
Const. cable barrier terminal
Conn. to extg. cable barrier
(For details, see sht. BB08)
- ⑥ Inst. impact attenuator, barrels
(For details, see sht. no. BB10)



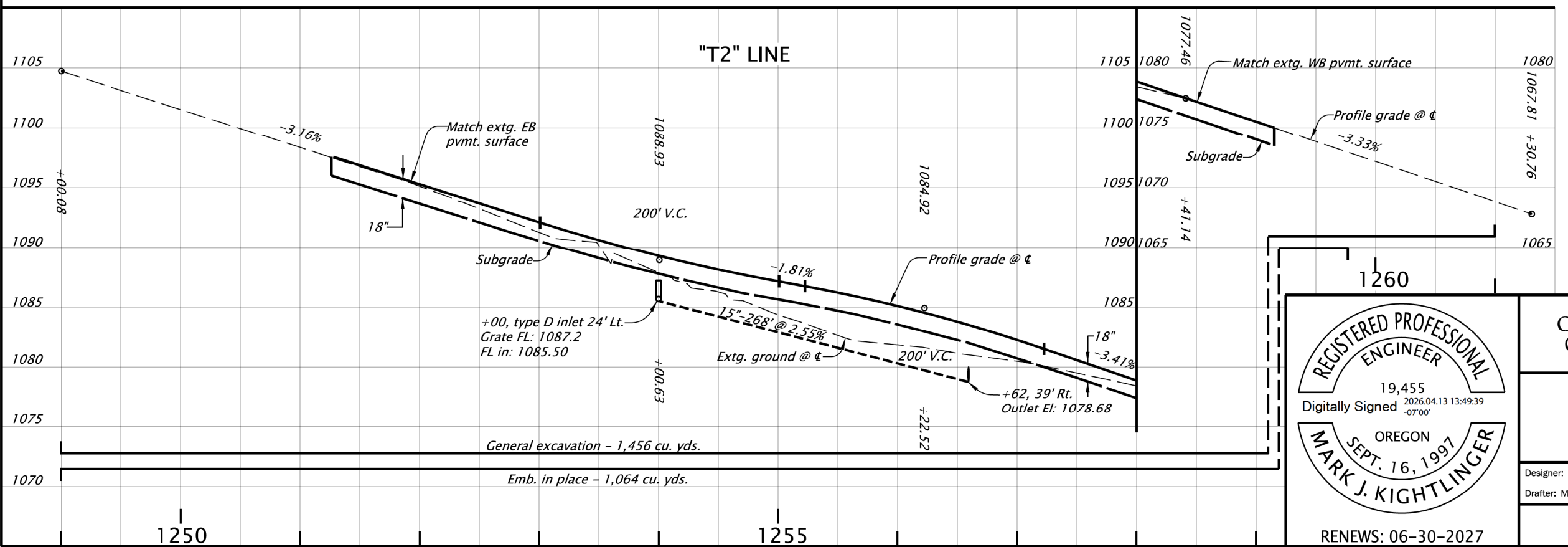
OREGON DEPARTMENT OF TRANSPORTATION		
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY		
Designer: Mark J. Kightlinger Drafter: Mark J. Kightlinger	Reviewer: Lauren Juzeler Checker: Lindsey McCullough	SHEET NO. C01A
PROFILE & CONSTRUCTION NOTES		

RENEWS: 06-30-2027

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- CONSTRUCTION NOTES**
- 1 Const. crossover
 - 2 Sta. "WB" 1249+32± To Sta. "WB" 1262+25±
Remove cable barrier - 1,294 ±
Remove cable barrier anchor
 - 3 Sta. "WB" 1249+32 To Sta. "WB" 1354+78 Rt.
Const. cable barrier - 510'
30:1 Flare rate
Const. cable barrier terminal
Conn. to extg. cable barrier
(For details, see sht. BB08)
 - 4 Sta. "T1" 1258+15 To Sta. "WB" 1262+93, Rt.
Const. Midwest Guardrail System - 400' (Type 2A) - 12.5' (Type 3)
Const. Guardrail Transition
W=1', E=2'
Const. Guardrail Terminal, Non-Flared
Test level 3
(See dwg. nos. RD402-RD404, RD407, RD409, RD410, RD416, RD419, RD420, RD442A, RD482 & BR203)
 - 5 Const. impact attenuator, barrels
(For details, see sht. no. BB10)
 - 6 Sta. "T2" 1255+07
Inst. 15" culvert - 268'
5' depth
Const. paved end slope, Rt.
Material -
Dual wall polypropylene pipe
or
115 psi stiffness PVC pipe
(See dwg. nos. RD300, RD319, RD320, RD388 & RD393)
 - 7 Sta. "T2" 1254+00, 24' Lt.
Const. type "D" inlet
Grate FL 1087.2
(See dwg. nos. RD339, RD365 & RD370)



OREGON DEPARTMENT OF TRANSPORTATION

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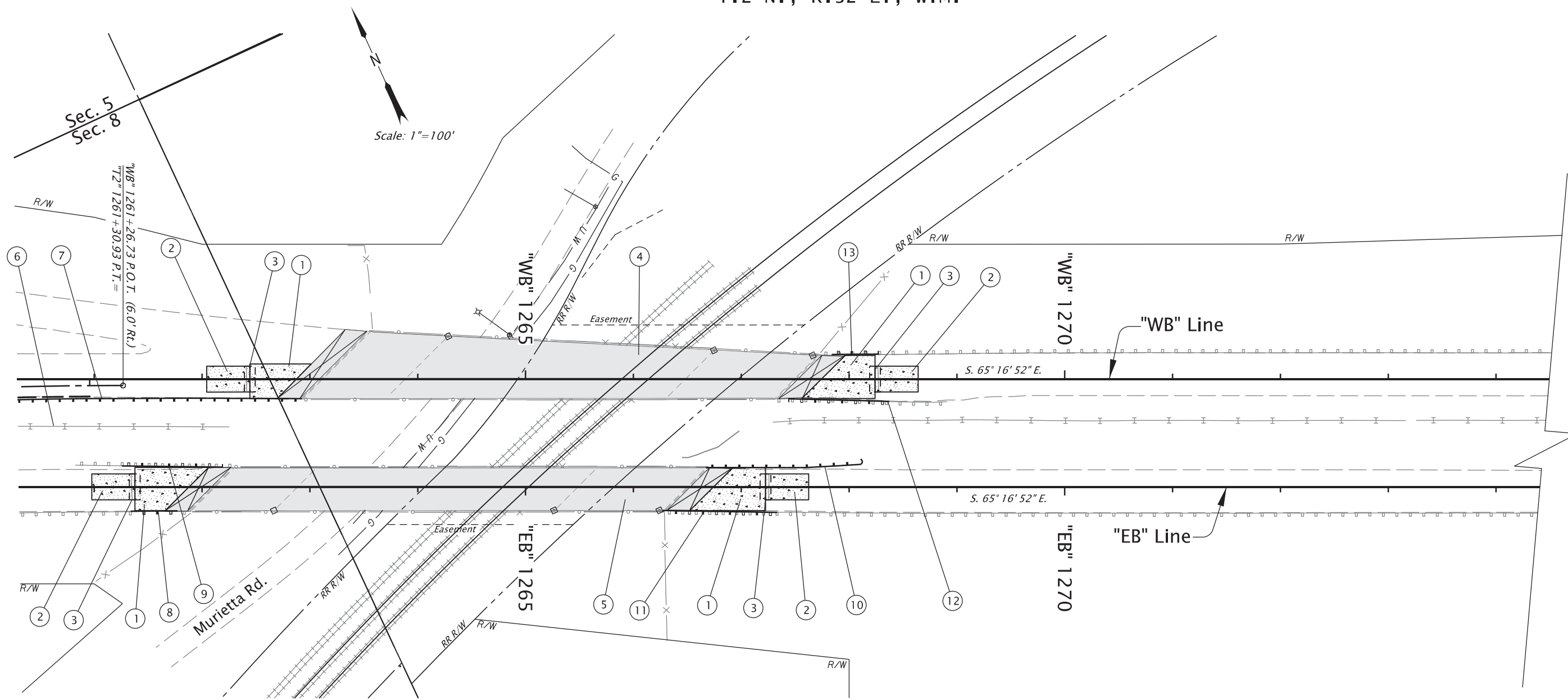
Designer: Mark J. Kightlinger
Reviewer: Lauren Juzeler
Drafter: Mark J. Kightlinger
Checker: Lindsey McCullough

RENEWS: 06-30-2027

GENERAL CONSTRUCTION

SHEET NO. C02

T.2 N., R.32 E., W.M.



REGISTERED PROFESSIONAL
ENGINEER
19,455
Digitally Signed 2026.03.30 08:16:17 -07'00'
OREGON
SEPT. 16, 1997
MARK J. KIGHTLINGER

OREGON DEPARTMENT OF TRANSPORTATION

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Drafter: Mark J. Kightlinger Checker: Lindsey McCullough

GENERAL CONSTRUCTION SHEET NO. C03

RENEWS: 06-30-2027

FINAL ELECTRONIC DOCUMENT AVAILABLE UPON REQUEST

CONSTRUCTION NOTES

- ① *Const. reinforced concrete pavement
(For details, see shts. BB01 & BB03)*
- ② *Const. reinforced concrete pavement repair
(For details, see shts. BB01, BB04 - BB06)*
- ③ *Const. terminal expansion joint
with sleeper slab
(For details, see shts. BB01, BB04 & BB06)*
- ④ *Structure #09520
Const. structural concrete inlay
(For details, see sht. JA01)*
- ⑤ *Structure #09520A
Const. structural concrete inlay
(For details, see sht. JA01)*
- ⑥ *(See sht. C02, note 2)
Remove cable barrier
Remove cable barrier anchor*
- ⑦ *(See sht. C02, note 4)
Const. Midwest Guardrail System
Const. Guardrail Transition*
- ⑧ *Sta. "EB" 1261+34 To Sta. "EB" 1261+78, Rt.
Remove extg. guardrail - 44'±
Const. Midwest Guardrail Height Conversion, Type 2A
Const. Midwest Guardrail System - 12.5' (Type 3)
Const. Thrie-Beam to W-Beam Transation
Conn. to extg. guardrail
(For details, see sht. BB07)*
- ⑨ *Sta. "EB" 1261+26 To Sta. "EB" 1262+19, Lt.
Remove extg. guardrail - 94'±
Const. Midwest Guardrail Height Conversion, Type 2A
Const. Midwest Guardrail System - 75' (Type 2A)
- 12.5' (Type 3)
Const. Thrie-Beam to W-Beam Transation
Conn. to extg. guardrail
(For details, see sht. BB07)*
- ⑩ *Sta. "EB" 1266+67 To Sta. "EB" 1268+10, Lt.
Const. Midwest Guardrail System - 62.5' (Type 2A)
- 12.5' (Type 3)

Const. Guardrail Transation
Const. Guardrail Terminal, Flared
W=3', E=2'
Const. widening for guardrail flare
(For details, see sht. no. BB08)*
- ⑪ *Sta. "EB" 1266+27 To Sta. "EB" 1267+33, Rt.
Remove extg. guardrail - 106'±
Const. Midwest Guardrail Height Conversion, Type 2A
Const. Midwest Guardrail System - 50' (Type 2A)
- 12.5' (Type 3)

Const. Guardrail Transition
Conn. to extg. guardrail*
- ⑫ *Sta. "WB" 1267+44 To Sta. "WB" 1268+37, Rt.
Remove extg. guardrail - 93'±
Const. Midwest Guardrail Height Conversion, Type 2A
Const. Midwest Guardrail System - 50' (Type 2A)
- 12.5' (Type 3)

Const. Thrie-Beam to W-Beam Transation
Conn. to extg. guardrail
(For details, see sht. BB07)*
- ⑬ *Sta. "WB" 1267+84 To Sta. "WB" 1268+27, Lt.
Remove extg. guardrail - 44'±
Const. Midwest Guardrail Height Conversion, Type 2A
Const. Midwest Guardrail System - 12.5' (Type 3)
Const. Thrie-Beam to W-Beam Transation
Conn. to extg. guardrail
(For details, see sht. BB07)*



RENEWS: 06-30-2027

FINAL ELECTRONIC DOCUMENT
AVAILABLE UPON REQUEST

OREGON DEPARTMENT
OF TRANSPORTATION



**I-84: RIETH INTERCHANGE AND
UMATILLA RIVER BRIDGES PROJECT**
OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

Designer: Mark J. Kightlinger

Reviewer: Lauren Juzeler

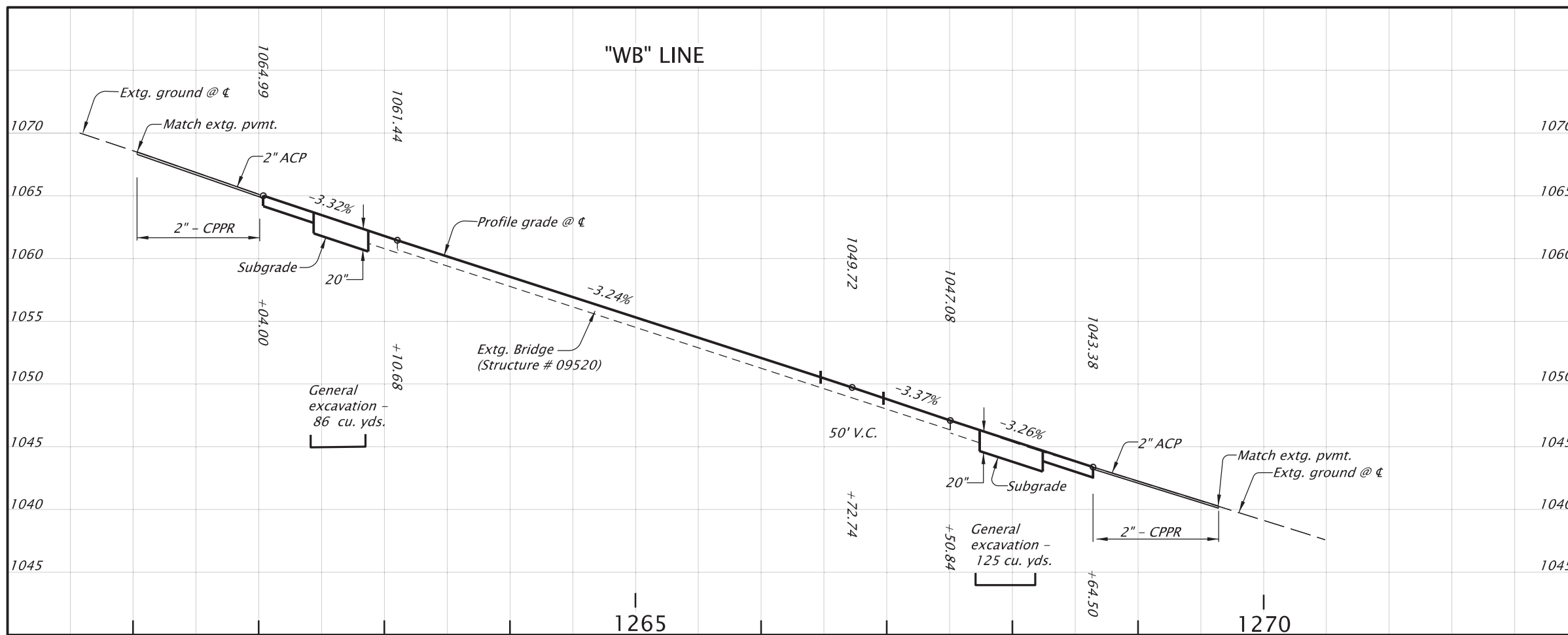
Drafter: Mark J. Kightlinger

Checker: Lindsey McCullough

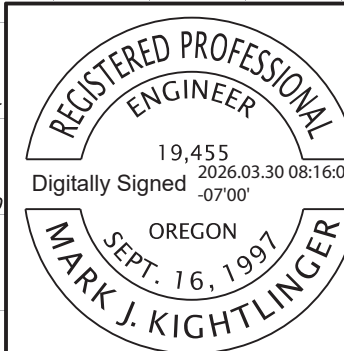
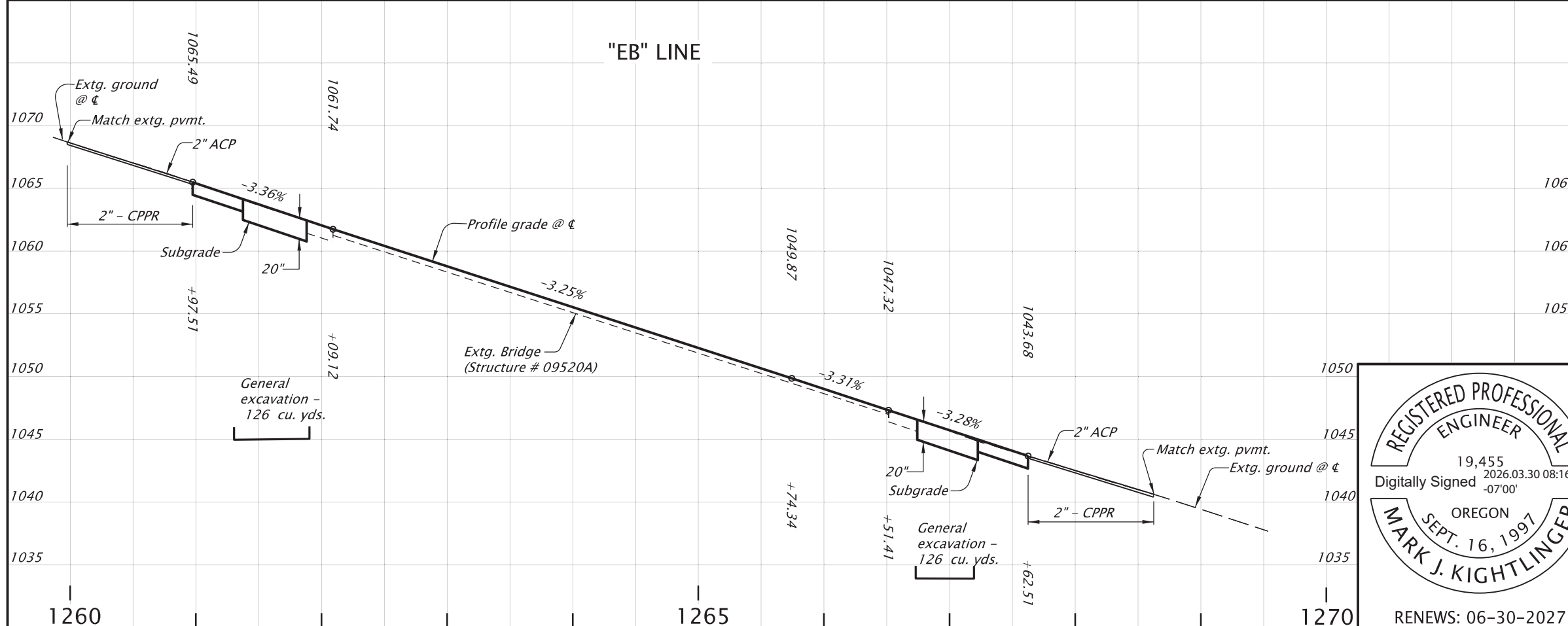
GENERAL CONSTRUCTION NOTES

SHEET NO.
CO3A

"WB" LINE



"EB" LINE



RENEWS: 06-30-2027

FINAL ELECTRONIC DOCUMENT
AVAILABLE UPON REQUEST

OREGON DEPARTMENT
OF TRANSPORTATION



**I-84: RIETH INTERCHANGE AND
UMATILLA RIVER BRIDGES PROJECT**
OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

Designer: Mark J. Kightlinger

Reviewer: Lauren Juzeler

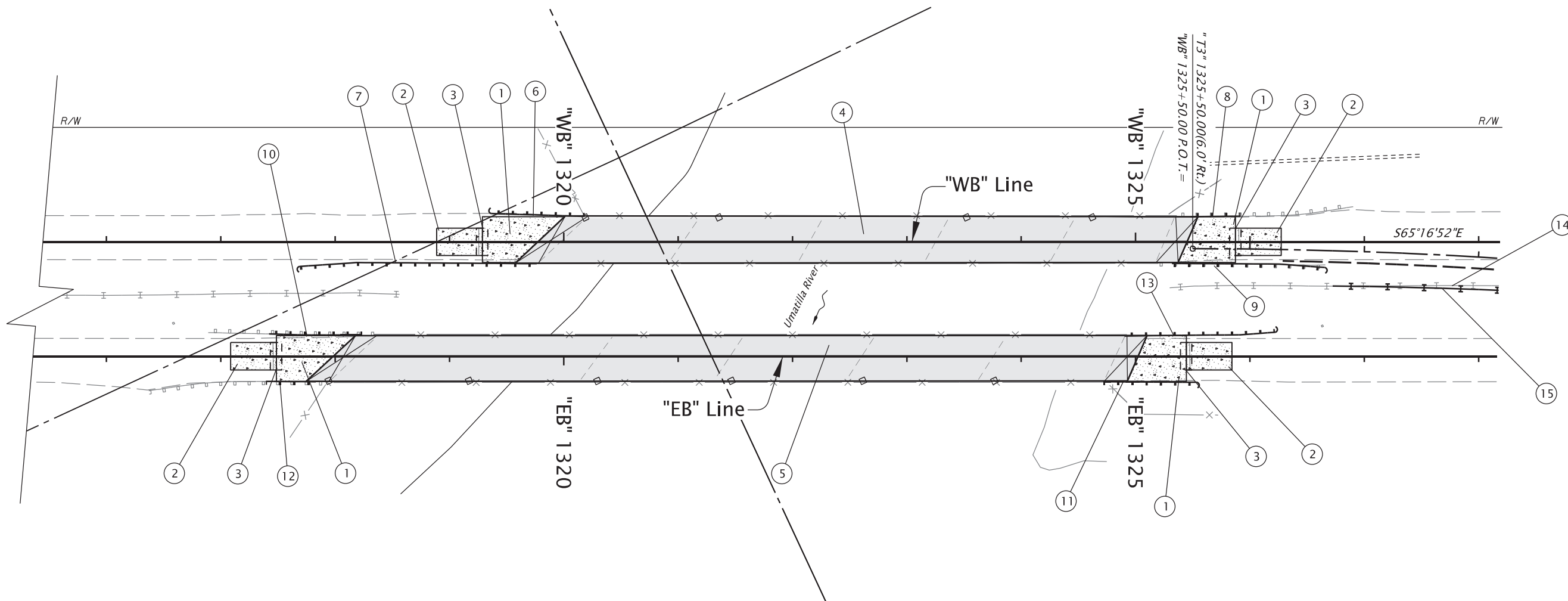
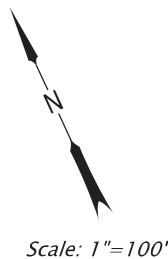
Drafter: Mark J. Kightlinger

Checker: Lindsey McCullough

PROFILE

SHEET NO.
C03B

Sec. 9, T.2 N., R.32 E., W.M.



RENEWS: 06-30-2027

FINAL ELECTRONIC DOCUMENT
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OREGON DEPARTMENT
OF TRANSPORTATION



**I-84: RIETH INTERCHANGE AND
UMATILLA RIVER BRIDGES PROJECT**
OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

Designer: Mark J. Kightlinger

Reviewer: Lauren Juzeler

Drafter: Mark J. Kightlinger

Checker: Lindsey McCullough

GENERAL CONSTRUCTION

SHEET NO.

C04

CONSTRUCTION NOTES

- ① *Const. reinforced concrete pavement
(For details, see shts. BB01 & BB03)*
- ② *Const. reinforced concrete pavement repair
(For details, see shts. BB01, BB04 - BB06)*
- ③ *Const. terminal expansion joint
with sleeper slab
(For details, see shts. BB02, BB04 & BB06)*
- ④ *Structure #09521
Const. structural concrete inlay
(For details, see sht. JB01)*
- ⑤ *Structure # 09521A
Const. structural concrete inlay
(For details, see sht. JB01)*
- ⑥ *Sta. "WB" 1319+37 To Sta. "WB" 1320+18, Lt.
Const. Midwest Guardrail System - 12.5' (Type 3)
Const. Guardrail Transition
Const. Guardrail terminal, non-flared
E=0', W=1'
Test level 3
Const. widening for guardrail flare
(For details, see sht. no. BB08)*
- ⑦ *Sta. "WB" 1317+69 To Sta. "WB" 1319+76, Rt.
Const. Midwest Guardrail System - 12.5' (Type 2A)
- 12.5' (Type 3)

Const. Guardrail Transition
Const. Guardrail terminal, flared
E=2', W=3'
Test level 3
Const. widening for guardrail flare
(For details, see sht. no. BB08)*
- ⑧ *Sta. "WB" 1325+48 To Sta. "WB" 1325+92, Lt.
Remove extg. guardrail - 44'±
Const. Midwest Guardrail Height Conversion, Type 2A
Const. Midwest Guardrail System - 12.5' (Type 3)
Const. Thrie-Beam to W-Beam Transation
Conn. to extg. guardrail
(For details, see sht. BB07)*
- ⑨ *Sta. "WB" 1325+32 To Sta. "WB" 1326+65, Rt.
Remove extg. guardrail - 134'±
Const. Midwest Guardrail System - 75' (Type 2A)
- 12.5' (Type 3)

Const. Thrie-Beam to W-Beam Transation
Const. Guardrail terminal, flared
E=2', W=3'
Test Level 3
(For details, see sht. BB07)*
- ⑩ *Sta. "EB" 1317+42 To Sta. "EB" 1318+24, Lt.
Remove extg. guardrail - 82'±
Const. Midwest Guardrail Height Conversion, Type 2A
Const. Midwest Guardrail System - 37.5' (Type 2A)
- 12.5' (Type 3)

Const. Thrie-Beam to W-Beam Transation
Conn. to extg. guardrail
(For details, see sht. BB07)
Const. widening for guardrail flare
(For details, see sht. no. BB08)*
- ⑪ *Sta. "EB" 1324+72 To Sta. "EB" 1325+53 Rt.
Const. Midwest Guardrail System - 12.5' (Type 3)
Const. Guardrail Transition
Const. Guardrail terminal, non-flared
E=0', W=1'
Test level 3
Const. widening for guardrail flare
(For details, see sht. no. BB08)*
- ⑫ *Sta. "EB" 1317+39 To Sta. "EB" 1317+83, Rt.
Remove extg. guardrail - 44'±
Const. Midwest Guardrail Height Conversion, Type 2A
Const. Midwest Guardrail System - 12.5' (Type 3)
Const. Thrie-Beam to W-Beam Transation
Conn. to extg. guardrail
(For details, see sht. BB07)*
- ⑬ *Sta. "EB" 1324+92 To Sta. "EB" 1326+27, Lt.
Const. Midwest Guardrail System - 50' (Type 2A)
- 12.5' (Type 3)

Const. Guardrail Transition
Const. Guardrail terminal, flared
E=0', W=3'
Test level 3
Const. widening for guardrail flare
(For details, see sht. no. BB08)*
- ⑭ *Sta. "WB" 1326+72± To Sta. "WB" 1342+67
Remove cable barrier - 1595' ±*
- ⑮ *Sta. "WB" 1326+72 To Sta. "WB" 1331+58, Rt.
Const. cable barrier - 450'
Const. cable barrier terminal
Conn. to extg. cable barrier
(For details, see sht. BB08)*



RENEWS: 06-30-2027

FINAL ELECTRONIC DOCUMENT
AVAILABLE UPON REQUEST

OREGON DEPARTMENT
OF TRANSPORTATION



**I-84: RIETH INTERCHANGE AND
UMATILLA RIVER BRIDGES PROJECT**
OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

Designer: Mark J. Kightlinger

Reviewer: Lauren Juzeler

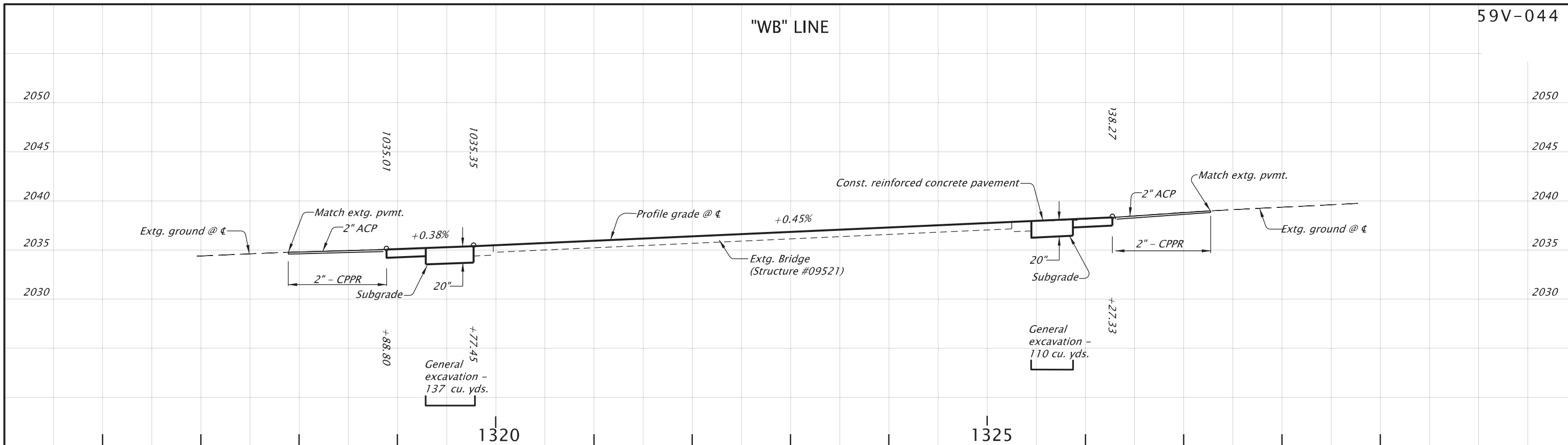
Drafter: Mark J. Kightlinger

Checker: Lindsey McCullough

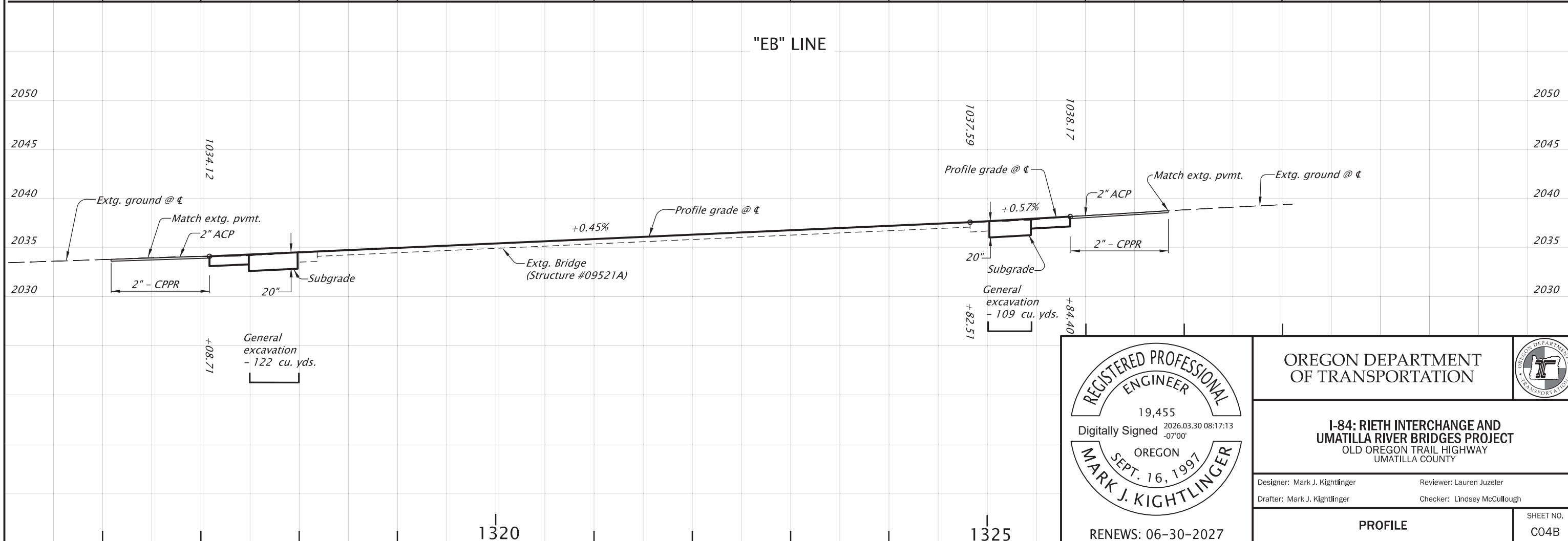
GENERAL CONSTRUCTION NOTES


SHEET NO.
C04A

"WB" LINE



"EB" LINE

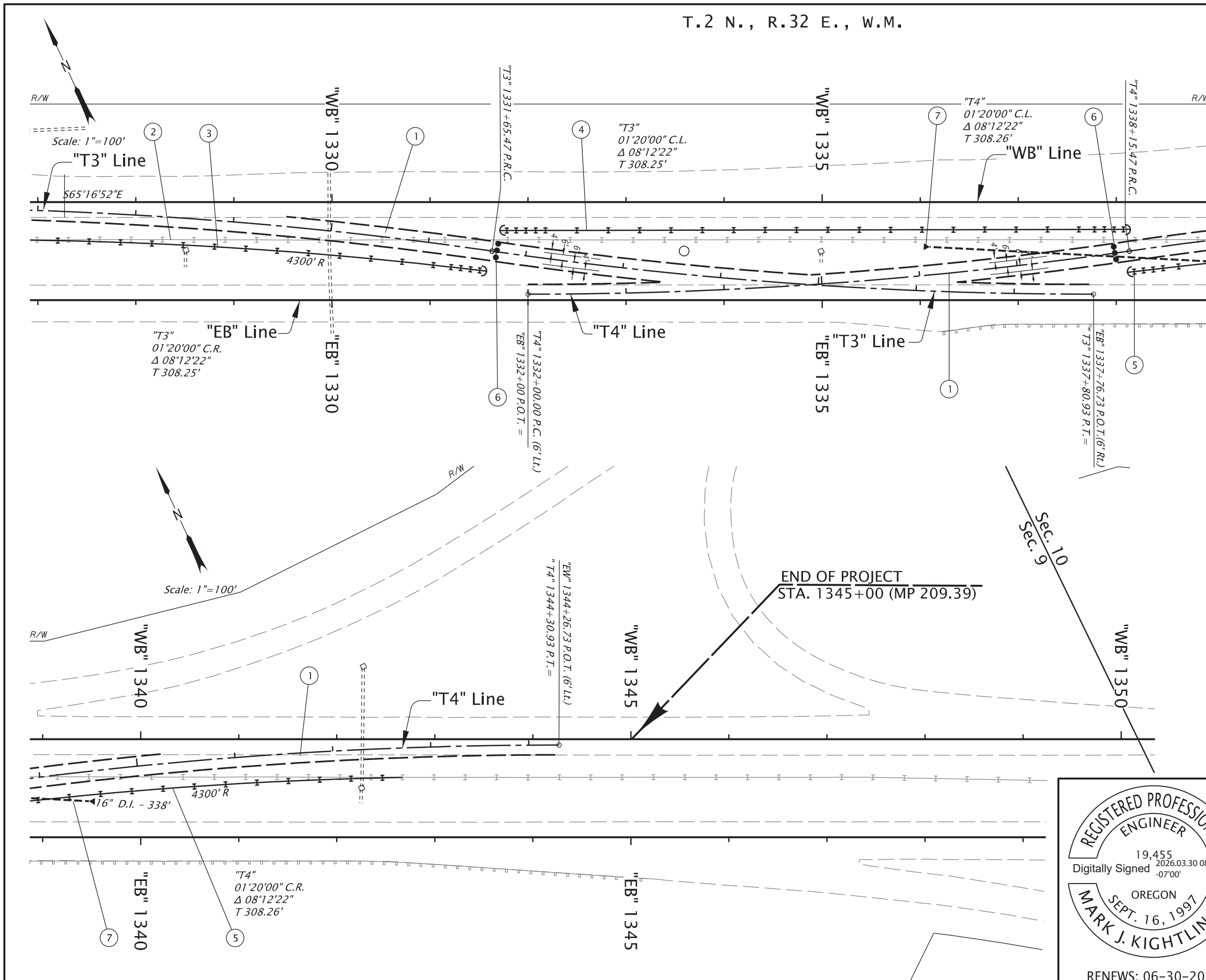


 OREGON DEPARTMENT OF TRANSPORTATION	
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Mark J. Kightlinger Drafter: Mark J. Kightlinger	Reviewer: Lauren Juzeler Checker: Lindsey McCullough
PROFILE	SHEET NO. C04B

RENEWS: 06-30-2027

FINAL ELECTRONIC DOCUMENT AVAILABLE UPON REQUEST

T.2 N., R.32 E., W.M.




CONSTRUCTION NOTES

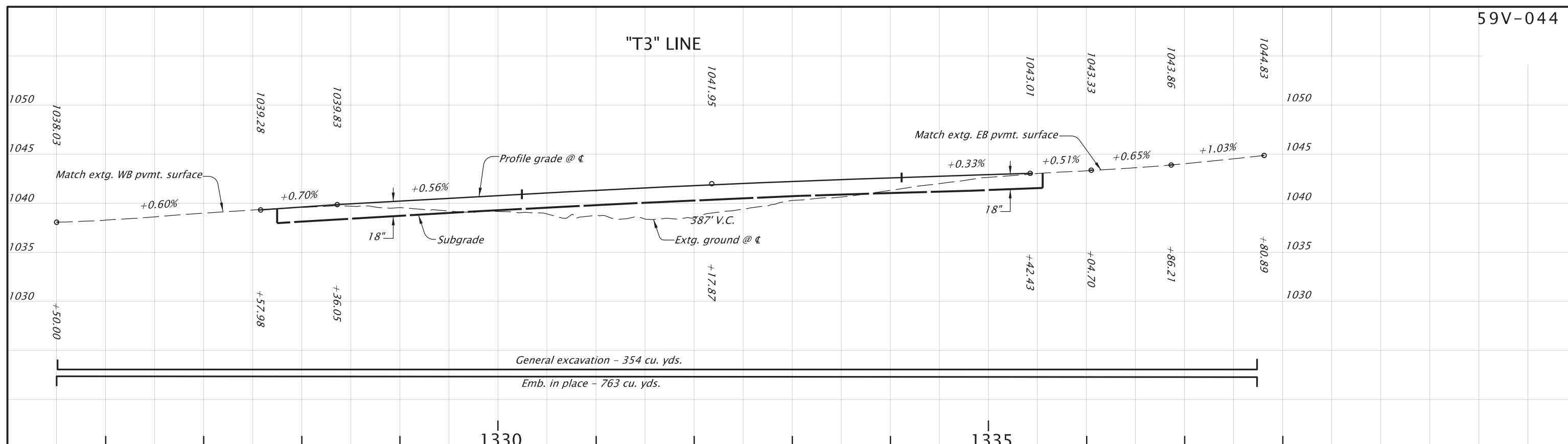
- ① Const. crossovers - 2
- ② See sht. C04, note 14
Remove cable barrier
- ③ See sht. C04, note 15
Const. cable barrier
Const. cable barrier terminal
(For details, see sht. BB08)
- ④ Sta. "WB" 1331+71 To Sta "WB" 1338+14, 28' Rt
Const. cable barrier - 570'
Const. cable barrier terminal - 2
(For details, see sht. BB08)
- ⑤ Sta. "WB" 1338+11 To Sta "WB" 1342+67, Rt.
Const. cable barrier - 420'
Const. cable barrier terminal
Conn. to extg. cable barrier
(For details, see sht. BB08)
- ⑥ Inst. impact attenuator barrels - 2
(For details, see sht. no. BB10)
- ⑦ Sta. "T4" 1337+82
Inst. 16" D.I. Culvert
5' depth
Material - Pressure class 250
Const. paved end slope, Lt. & Rt.



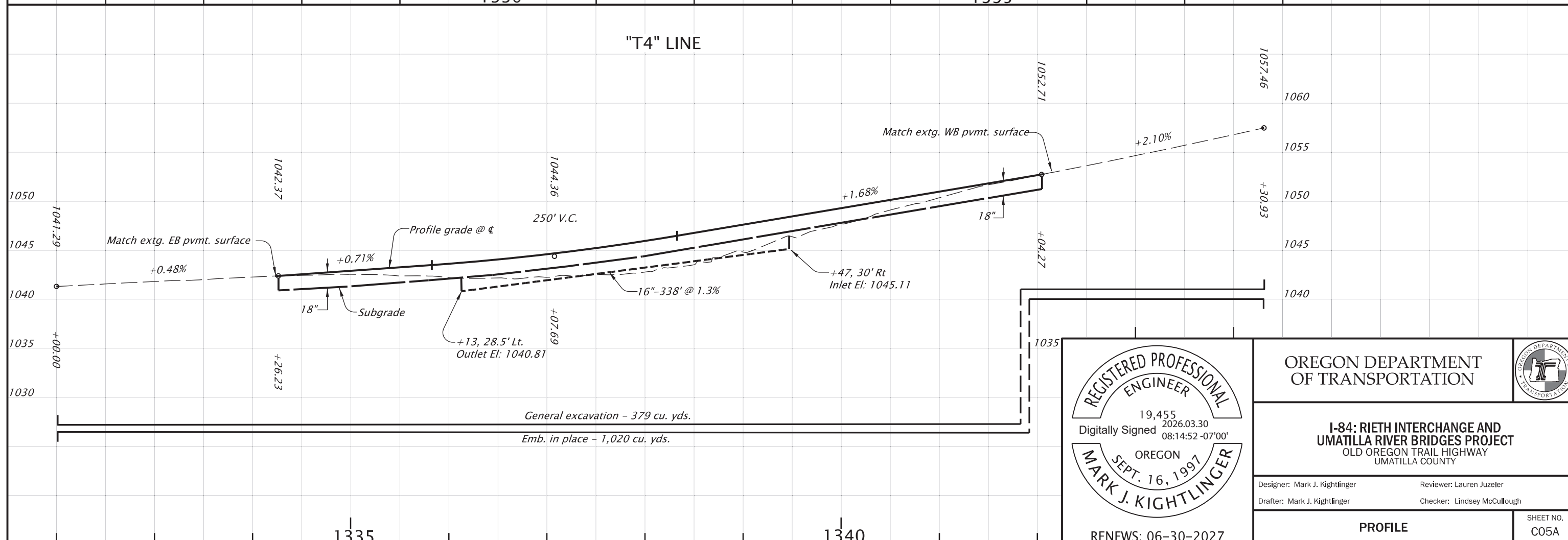
RENEWS: 06-30-2027

 <p>OREGON DEPARTMENT OF TRANSPORTATION</p>	
<p>I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY</p>	
Designer: Mark J. Kightlinger Drafter: Mark J. Kightlinger	Reviewer: Lauren Juzeler Checker: Lindsey McCullough
<p>GENERAL CONSTRUCTION</p>	<p>SHEET NO. C05</p>

"T3" LINE



"T4" LINE

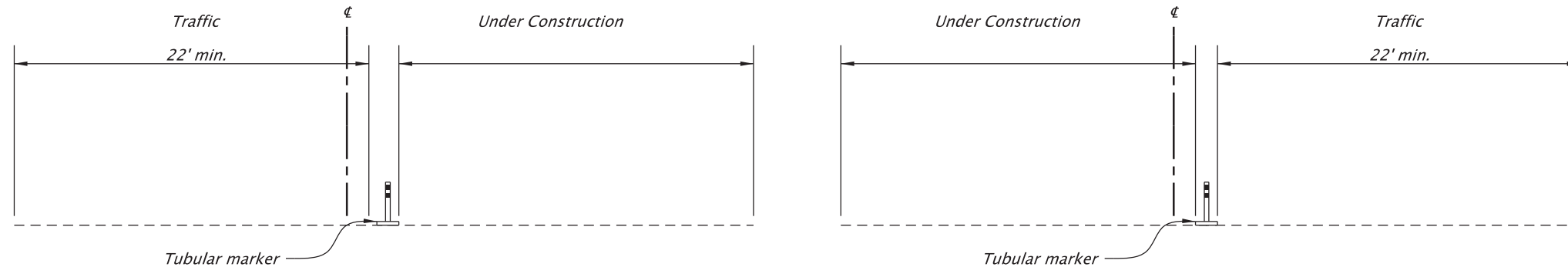


<p>OREGON DEPARTMENT OF TRANSPORTATION</p>	
<p>I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY</p>	
<p>Designer: Mark J. Kightlinger</p>	<p>Reviewer: Lauren Juzeler</p>
<p>Drafter: Mark J. Kightlinger</p>	<p>Checker: Lindsey McCullough</p>
<p>PROFILE</p>	<p>SHEET NO. C05A</p>

RENEWS: 06-30-2027

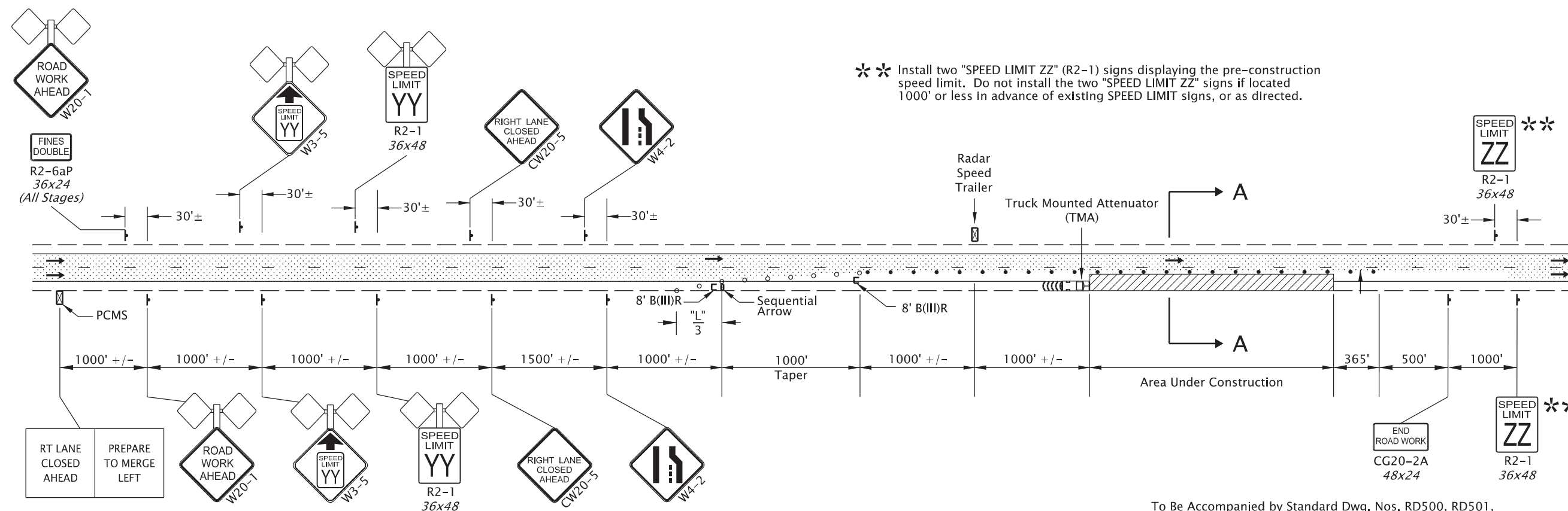
FINAL ELECTRONIC DOCUMENT AVAILABLE UPON REQUEST

FREEWAY SPEED REDUCTION



SECTION A-A
(Right Lane Closure)

SECTION A-A
(Left Lane Closure)



** Install two "SPEED LIMIT ZZ" (R2-1) signs displaying the pre-construction speed limit. Do not install the two "SPEED LIMIT ZZ" signs if located 1000' or less in advance of existing SPEED LIMIT signs, or as directed.

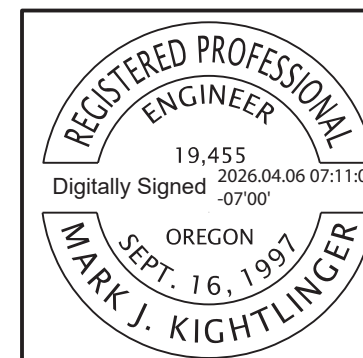
To Be Accompanied by Standard Dwg. Nos. RD500, RD501, RD503, TM500, TM800, TM820 - TM822, TM833, TM850, TM855, & TM861

Notes:

- Speed Limit of "YY" shown on signs to be determined by an approved Speed Zone Order from the State Traffic Engineer.
- Do not delineate Radar Speed Trailer. Locate Trailer as shown, or as directed.
- Cover all permanent signs conflicting with temporary signing.
- For work in the left lane, place TCD to close the left lane. Use " LEFT LANE CLOSED AHEAD" (CW20-5) signs and the appropriate "LEFT LANE ENDS" (W4-2) signs.
- To determine Taper Length "L" use the "MINIMUM LENGTHS TABLE" on Dwg. No. TM800
- Limit lane closure length to 2.5 miles, or as directed

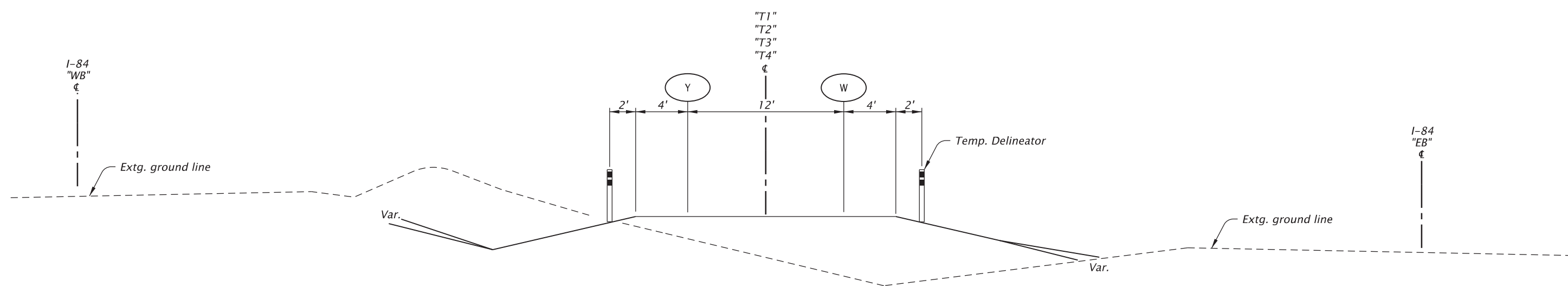
- • • Temp. Plastic Drums @ 40 ft. max. spacing.
- • • 28" Tubular Markers @ 40 ft. max. spacing.

UNDER TRAFFIC
 UNDER CONSTRUCTION



OREGON DEPARTMENT OF TRANSPORTATION 	
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Kyle O'Brien Drafter: Kyle O'Brien	Reviewer: Mark J. Kightlinger Checker: Mark J. Kightlinger
TRAFFIC CONTROL DETAILS	
SHEET NO. EA01	

Typical Crossover



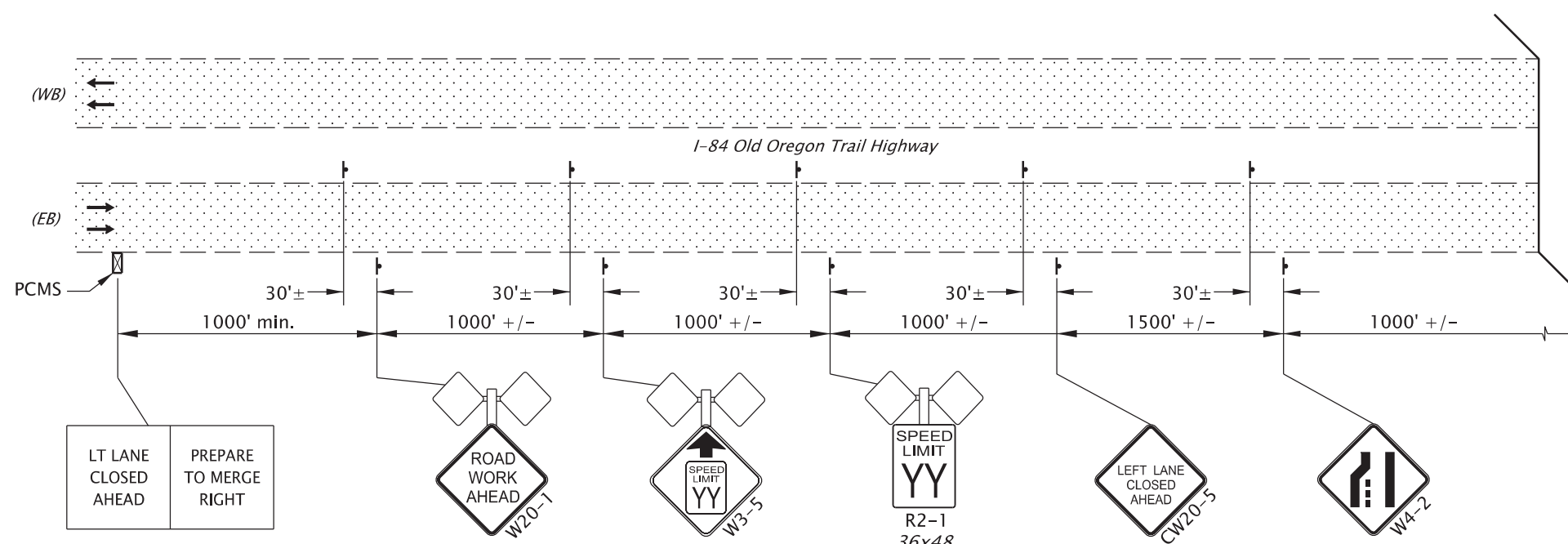
W Inst. 4" white line
Y Inst. 4" yellow line

REGISTERED PROFESSIONAL
 ENGINEER
 19,455
 Digitally Signed 2026.03.31 06:42:23
 -07'00'
 OREGON
 SEPT. 16, 1997
 MARK J. KIGHTLINGER

RENEWS: 6-30-2027

OREGON DEPARTMENT OF TRANSPORTATION		
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY		
Designer: Kyle O'Brien	Reviewer: Mark J. Kightlinger	
Drafter: Kyle O'Brien	Checker: Mark J. Kightlinger	
TRAFFIC CONTROL DETAILS		SHEET NO. EA02

STAGE I
PHASE I



NOTES:

- Install two "SPEED LIMIT ZZ" (R2-1) signs displaying the pre-construction speed limit. Do not install the two "SPEED LIMIT ZZ" signs if located 1000' or less in advance of existing SPEED LIMIT signs, or as directed.
- Speed Limit of "YY" shown on signs to be determined by an approved Speed Zone Order from the State Traffic Engineer.
- Cover all permanent signs conflicting with temporary signing.

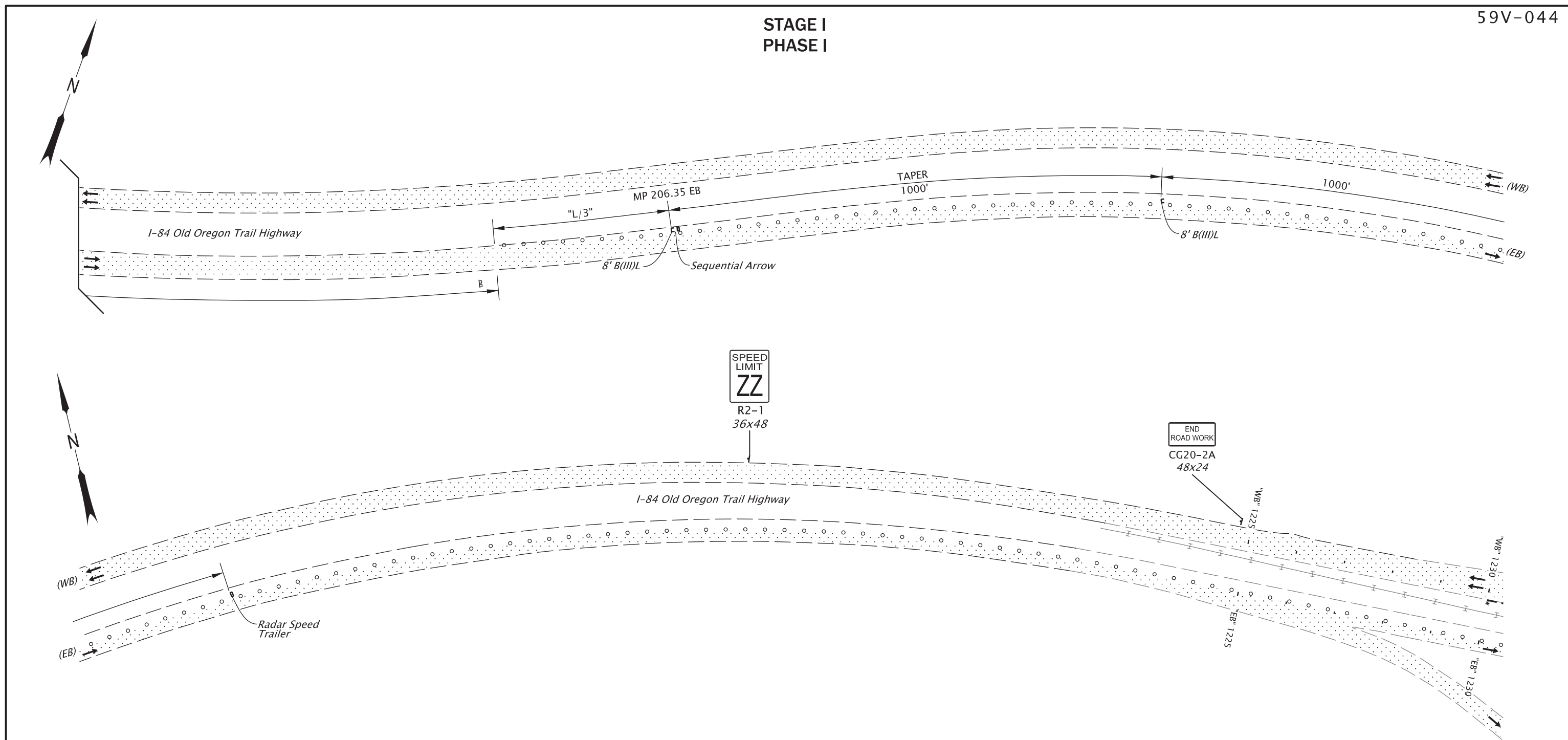
LEGEND:

- Under traffic
- Under construction
- Temp. plastic drums on 40' max. spacing
- Surface mounted tubular markers on 40' max. spacing
- Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
- Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing




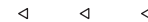


REGISTERED PROFESSIONAL ENGINEER
19,455
Digitally Signed 2026.03.31 06:40:52 -07'00'
OREGON
SEPT. 16, 1997
MARK J. KIGHTLINGER
RENEWS: 6-30-2027

OREGON DEPARTMENT OF TRANSPORTATION		
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY		
Designer: Kyle O'Brien	Reviewer: Mark J. Kightlinger	
Drafter: Kyle O'Brien	Checker: Mark J. Kightlinger	
TRAFFIC CONTROL PLAN		SHEET NO. EB01

STAGE I
PHASE I




LEGEND:

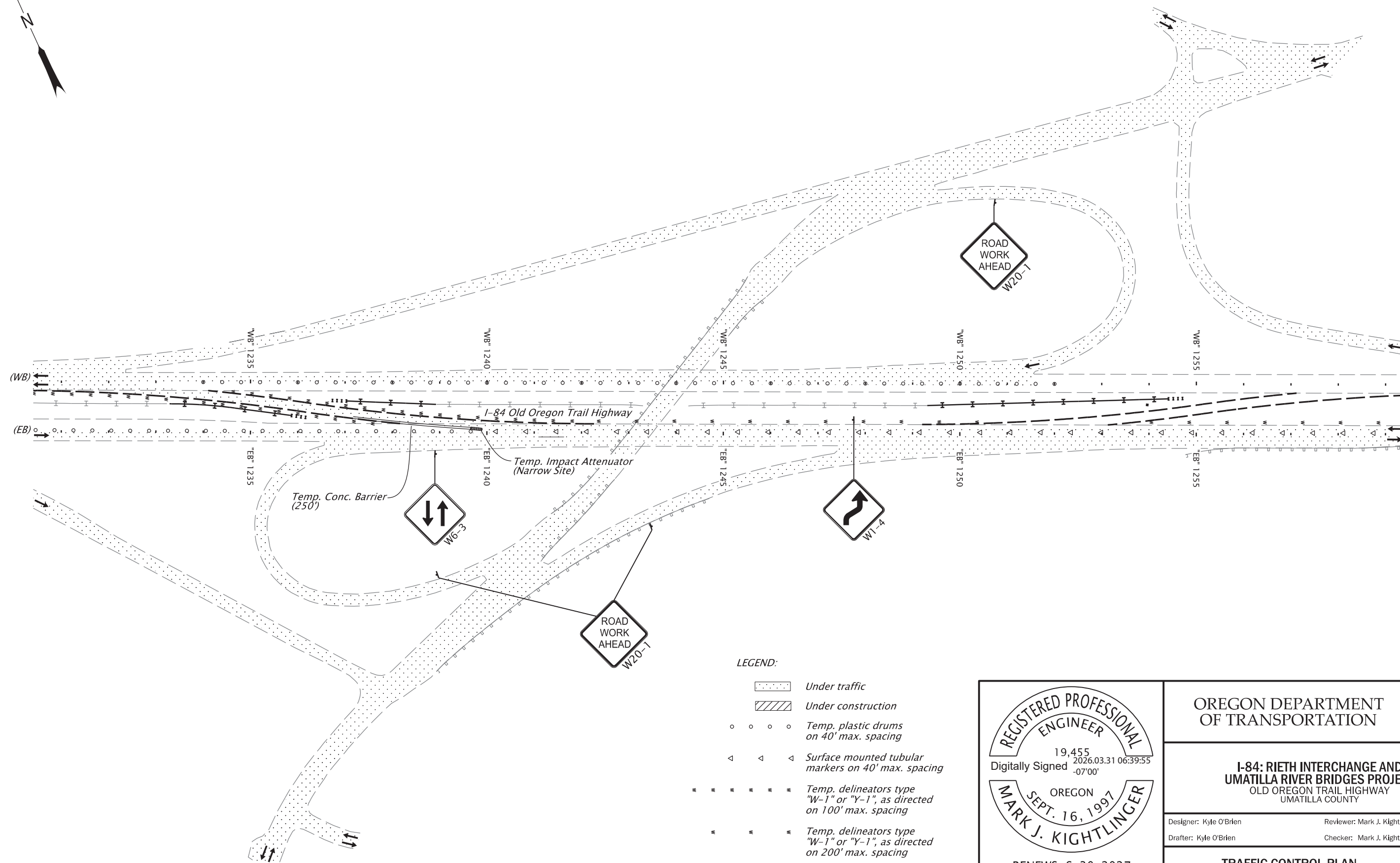
-  Under traffic
-  Under construction
-  Temp. plastic drums on 40' max. spacing
-  Surface mounted tubular markers on 40' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing


 19,455
 Digitally Signed 2026.03.31 06:40:24 -07'00'







 RENEWS: 6-30-2027

 OREGON DEPARTMENT OF TRANSPORTATION	
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Kyle O'Brien Drafter: Kyle O'Brien	Reviewer: Mark J. Kightlinger Checker: Mark J. Kightlinger
TRAFFIC CONTROL PLAN	
SHEET NO. EB02	

STAGE I
PHASE I




LEGEND:

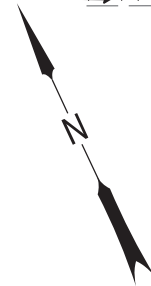
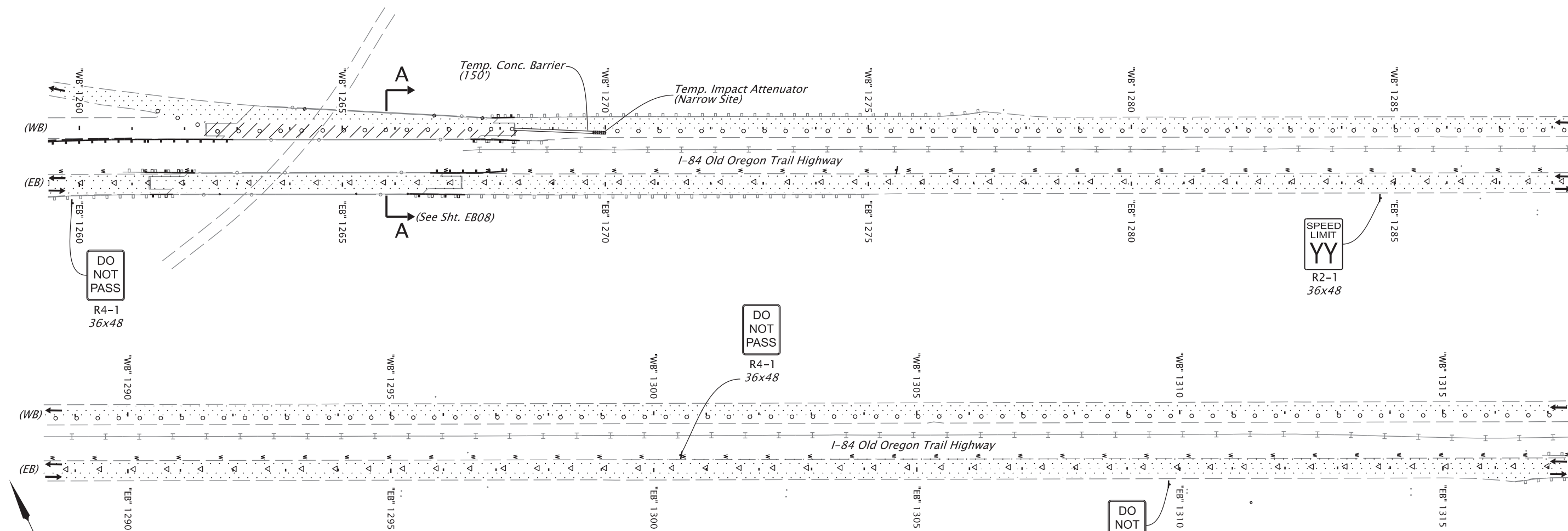
-  Under traffic
-  Under construction
-  Temp. plastic drums on 40' max. spacing
-  Surface mounted tubular markers on 40' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing


 Digitally Signed 2026.03.31 06:39:55 -07'00'







 RENEWS: 6-30-2027

 OREGON DEPARTMENT OF TRANSPORTATION	
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Kyle O'Brien Drafter: Kyle O'Brien	Reviewer: Mark J. Kightlinger Checker: Mark J. Kightlinger
TRAFFIC CONTROL PLAN	
SHEET NO. EB03	

STAGE I
PHASE I



LEGEND:

-  Under traffic
-  Under construction
-  Temp. plastic drums on 40' max. spacing
-  Surface mounted tubular markers on 40' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing

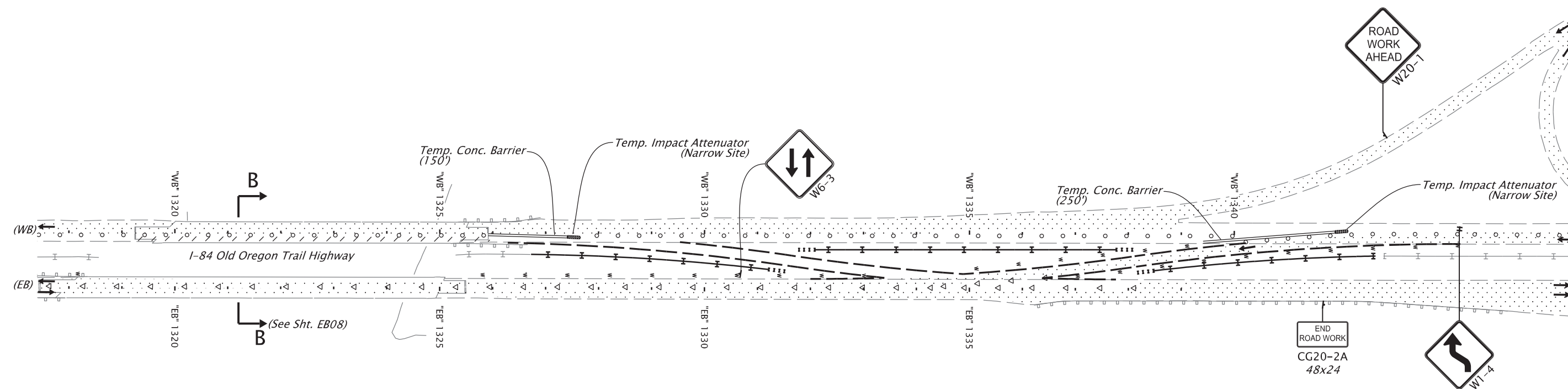
DO NOT PASS
R4-1
36x48

REGISTERED PROFESSIONAL ENGINEER
19,455
Digitally Signed 2026.03.31 06:39:26 -07'00'
OREGON
SEPT. 16, 1997
MARK J. KIGHTLINGER
RENEWS: 6-30-2027







SPEED LIMIT
YY
R2-1
36x48

OREGON DEPARTMENT OF TRANSPORTATION	
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Kyle O'Brien	Reviewer: Mark J. Kightlinger
Drafter: Kyle O'Brien	Checker: Mark J. Kightlinger
TRAFFIC CONTROL PLAN	
SHEET NO. EB04	

STAGE I
PHASE I



LEGEND:

-  Under traffic
-  Under construction
-  Temp. plastic drums on 40' max. spacing
-  Surface mounted tubular markers on 40' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing



RENEWS: 6-30-2027

FINAL ELECTRONIC DOCUMENT
AVAILABLE UPON REQUEST

OREGON DEPARTMENT
OF TRANSPORTATION



**I-84: RIETH INTERCHANGE AND
UMATILLA RIVER BRIDGES PROJECT**
OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

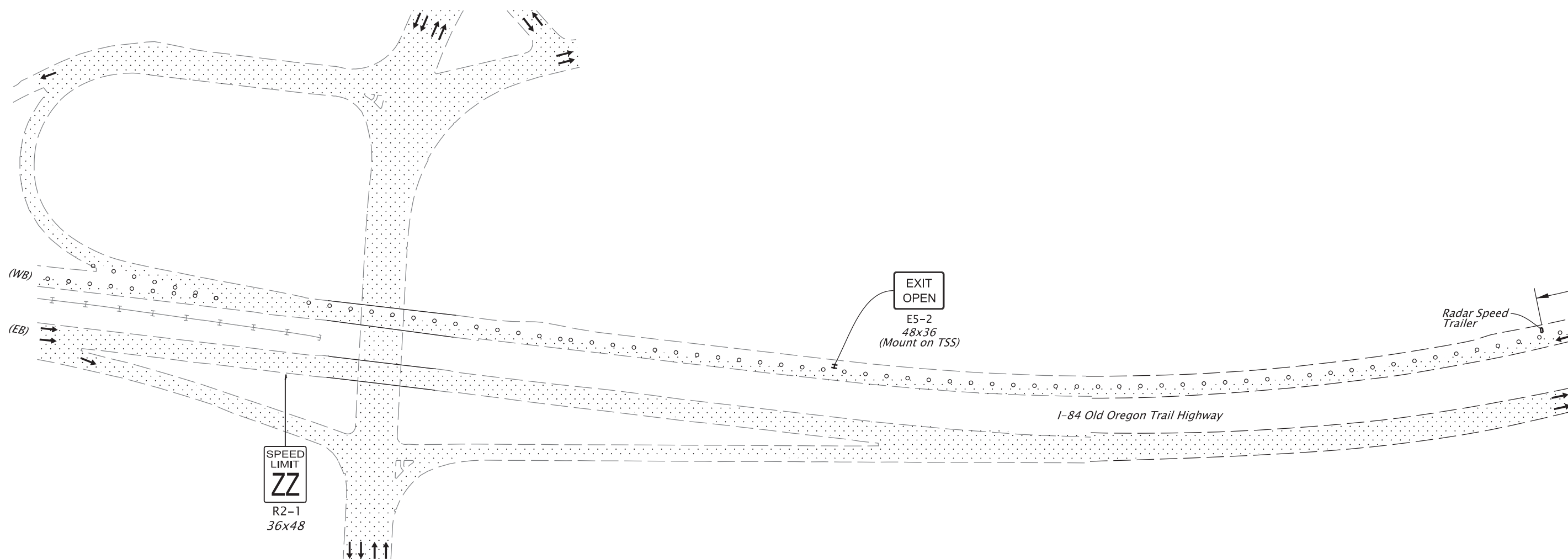
Designer: Kyle O'Brien
Drafter: Kyle O'Brien

Reviewer: Mark J. Kightlinger
Checker: Mark J. Kightlinger






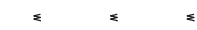
TRAFFIC CONTROL PLAN

SHEET NO.
EB05


STAGE I
PHASE I



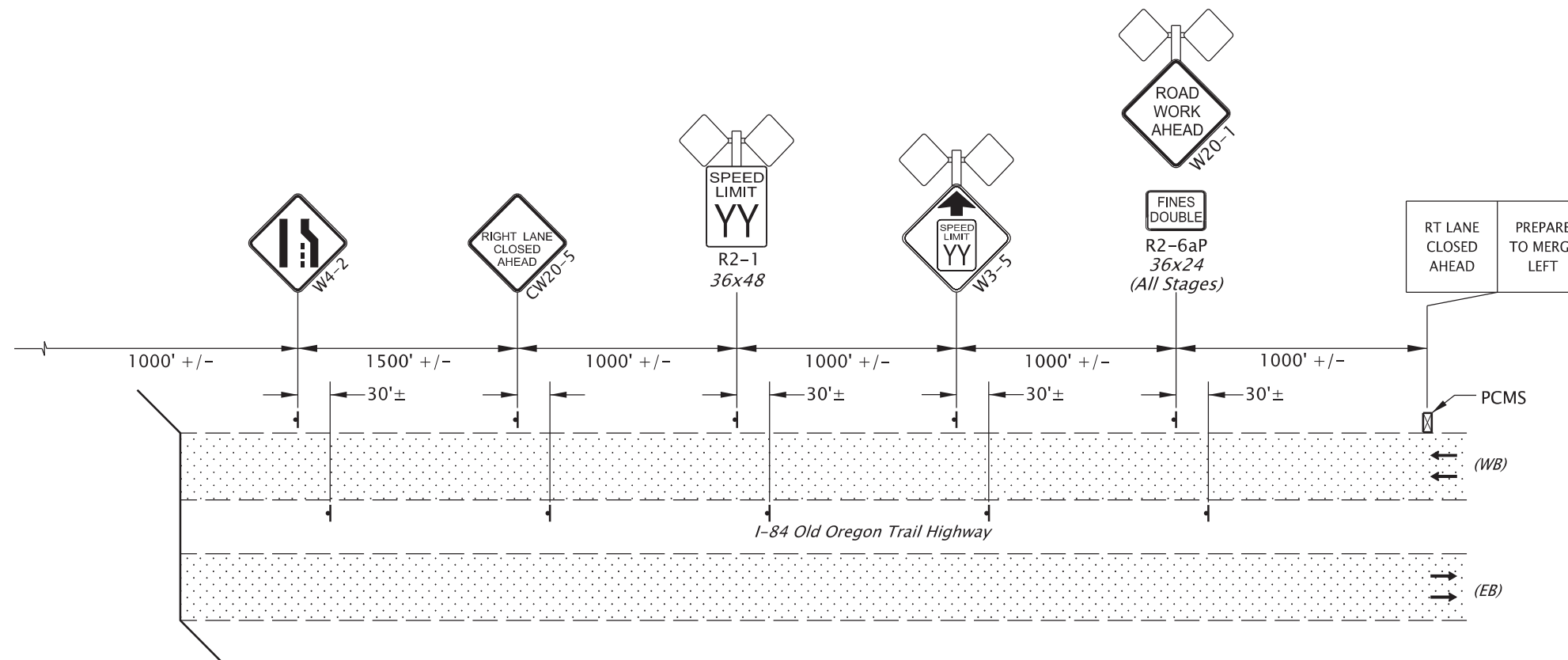
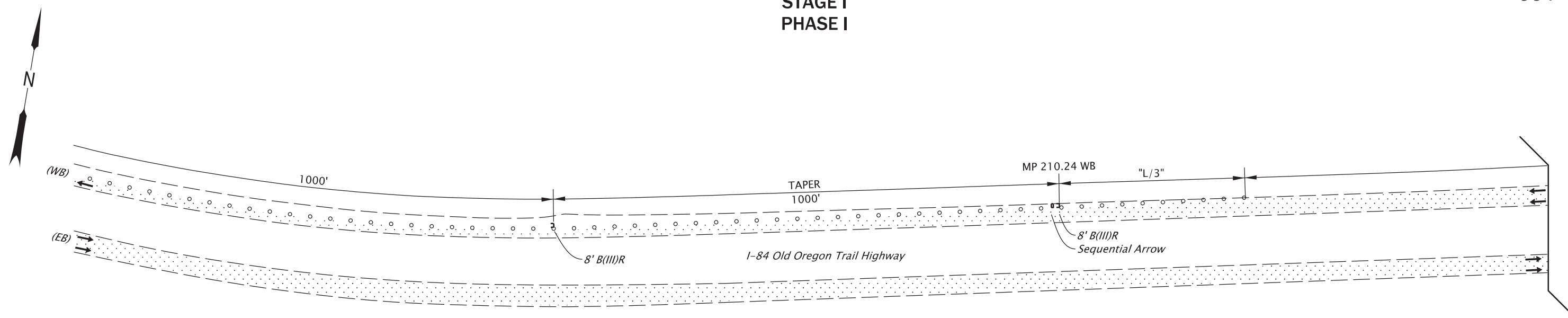
LEGEND:

-  Under traffic
-  Under construction
-  Temp. plastic drums on 40' max. spacing
-  Surface mounted tubular markers on 40' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing


 REGISTERED PROFESSIONAL ENGINEER
 19,455
 Digitally Signed 2026.03.31 06:38:28 -07'00'
 OREGON
 SEPT. 16, 1997
 MARK J. KIGHTLINGER
 RENEWS: 6-30-2027

 OREGON DEPARTMENT OF TRANSPORTATION	
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Kyle O'Brien	Reviewer: Mark J. Kightlinger
Drafter: Kyle O'Brien	Checker: Mark J. Kightlinger
TRAFFIC CONTROL PLAN	
SHEET NO. EB06	

STAGE I
PHASE I



LEGEND:

- Under traffic
- Under construction
- Temp. plastic drums on 40' max. spacing
- Surface mounted tubular markers on 40' max. spacing
- Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
- Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing

REGISTERED PROFESSIONAL ENGINEER
19,455
Digitally Signed 2026.03.31 06:37:38 -07'00'
OREGON
SEPT. 16, 1997
MARK J. KIGHTLINGER
RENEWS: 6-30-2027

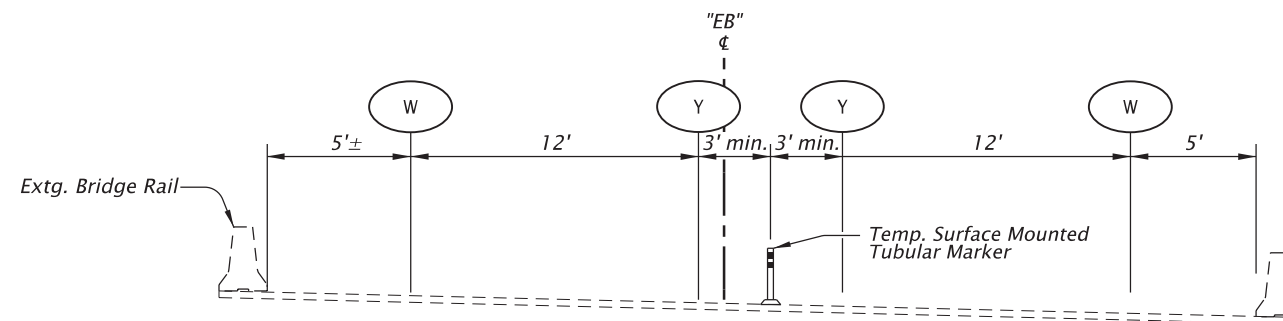
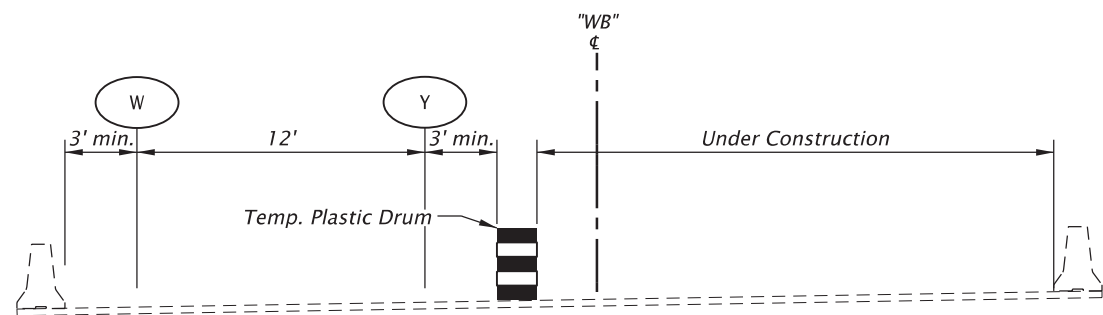
OREGON DEPARTMENT OF TRANSPORTATION

I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT
OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

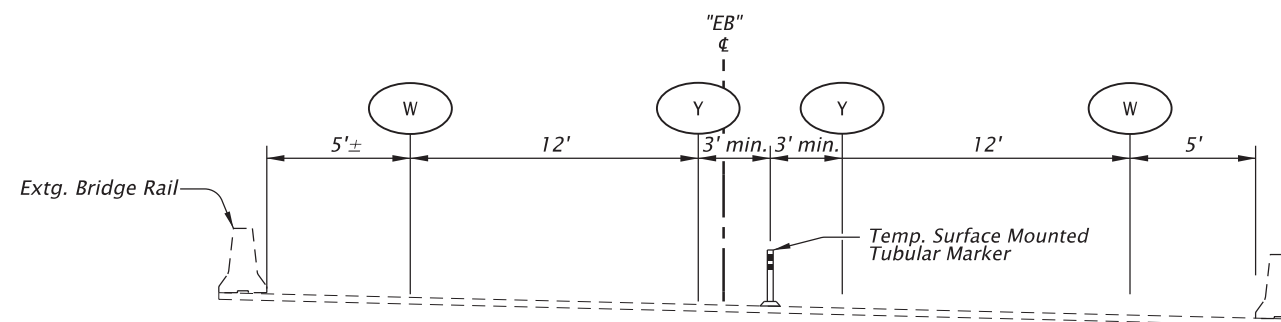
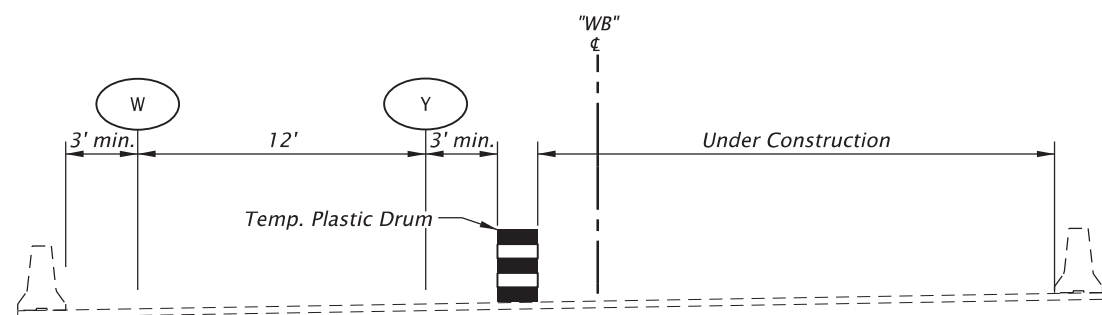
Designer: Kyle O'Brien Reviewer: Mark J. Kightlinger
Drafter: Kyle O'Brien Checker: Mark J. Kightlinger

TRAFFIC CONTROL PLAN SHEET NO. EB07

STAGE I
PHASE I



SECTION A - A
(See Sht. EB04)



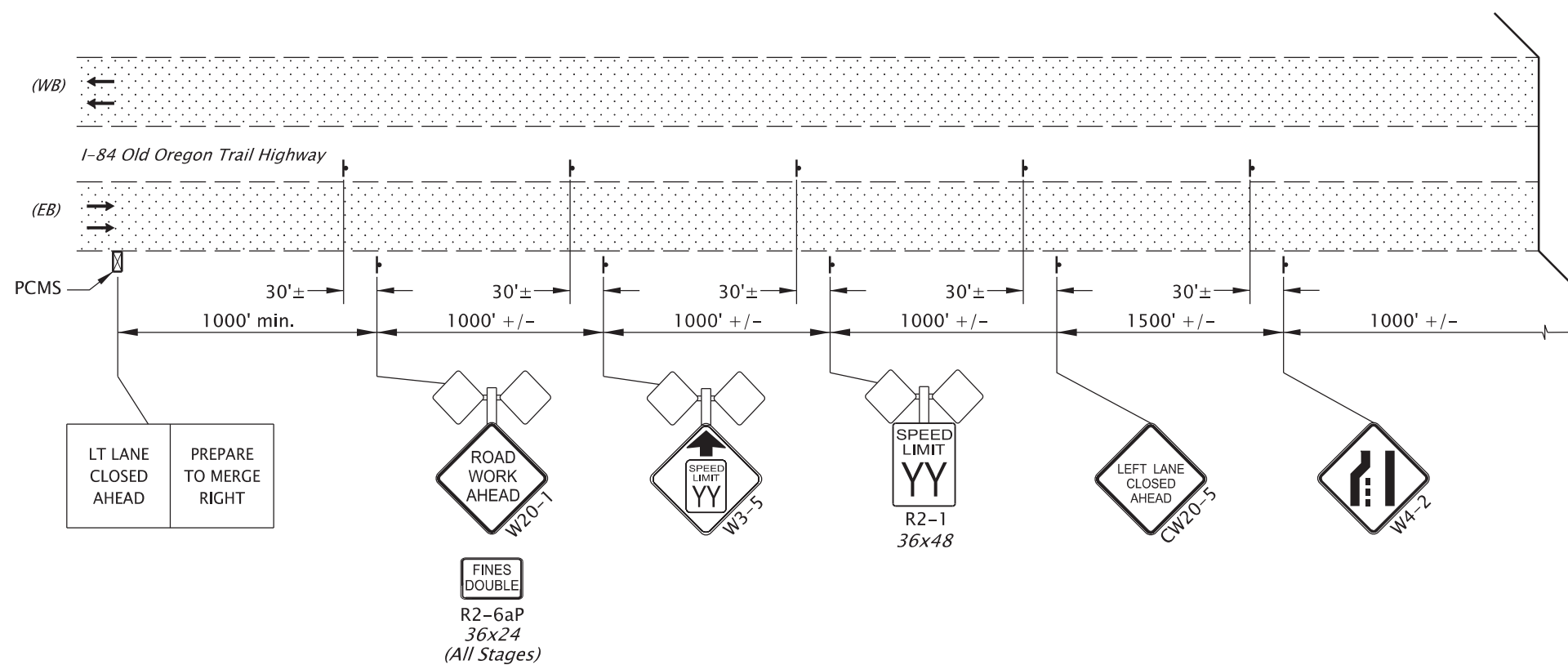
SECTION B - B
(See Sht. EB05)

- W Inst. 4" white line
- Y Inst. 4" yellow line



OREGON DEPARTMENT OF TRANSPORTATION		
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY		
Designer: Kyle O'Brien	Reviewer: Mark J. Kightlinger	
Drafter: Kyle O'Brien	Checker: Mark J. Kightlinger	
TRAFFIC CONTROL PLAN		SHEET NO. EB08

STAGE I
PHASE II



NOTES:

- Speed Limit of "YY" shown on signs to be determined by an approved Speed Zone Order from the State Traffic Engineer.
- Cover all permanent signs conflicting with temporary signing.

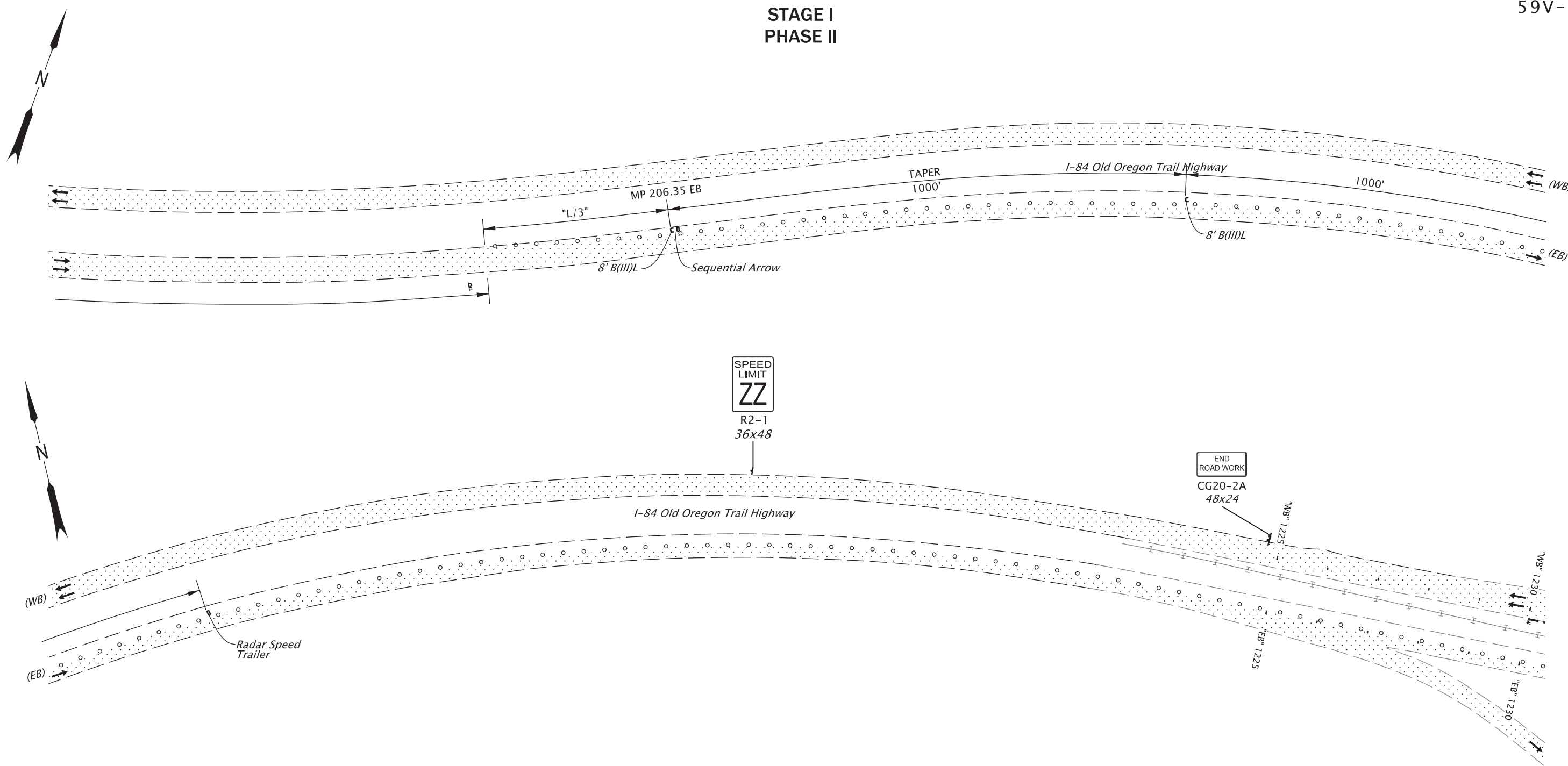
LEGEND:

- Under traffic
- Under construction
- Temp. plastic drums on 40' max. spacing
- Surface mounted tubular markers on 40' max. spacing
- Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
- Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing







REGISTERED PROFESSIONAL ENGINEER
19,455
Digitally Signed 2026.03.31 06:36:29 -07'00'
SEPT. 16, 1997
MARK J. KIGHTLINGER
RENEWS: 6-30-2027

OREGON DEPARTMENT OF TRANSPORTATION		
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY		
Designer: Kyle O'Brien	Reviewer: Mark J. Kightlinger	
Drafter: Kyle O'Brien	Checker: Mark J. Kightlinger	
TRAFFIC CONTROL PLAN		SHEET NO. EC01


STAGE I
PHASE II



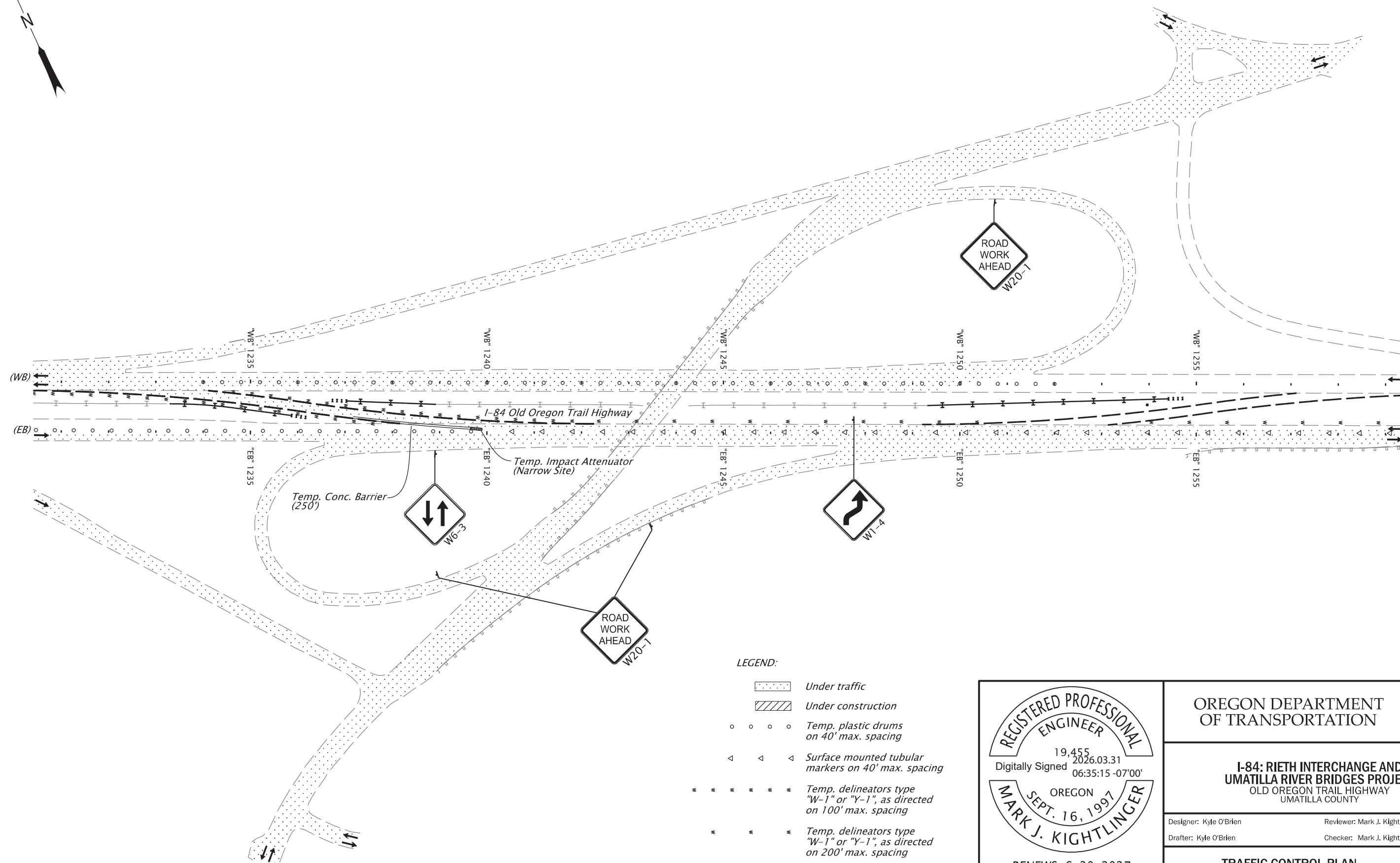
LEGEND:







-  Under traffic
-  Under construction
-  Temp. plastic drums on 40' max. spacing
-  Surface mounted tubular markers on 40' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing


 REGISTERED PROFESSIONAL ENGINEER
 19,455
 Digitally Signed 2026.03.31 06:35:53 -07'00'
 OREGON
 SEPT. 16, 1997
 MARK J. KIGHTLINGER
 RENEWS: 6-30-2027

 OREGON DEPARTMENT OF TRANSPORTATION	
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Kyle O'Brien Drafter: Kyle O'Brien	Reviewer: Mark J. Kightlinger Checker: Mark J. Kightlinger
TRAFFIC CONTROL PLAN	
SHEET NO. EC02	

STAGE I
PHASE II



- LEGEND:
-  Under traffic
 -  Under construction
 -  Temp. plastic drums on 40' max. spacing
 -  Surface mounted tubular markers on 40' max. spacing
 -  Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
 -  Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing

REGISTERED PROFESSIONAL ENGINEER
19,455
Digitally Signed 2026.03.31 06:35:15 -07'00'
OREGON
SEPT. 16, 1997
MARK J. KIGHTLINGER
RENEWS: 6-30-2027

OREGON DEPARTMENT OF TRANSPORTATION

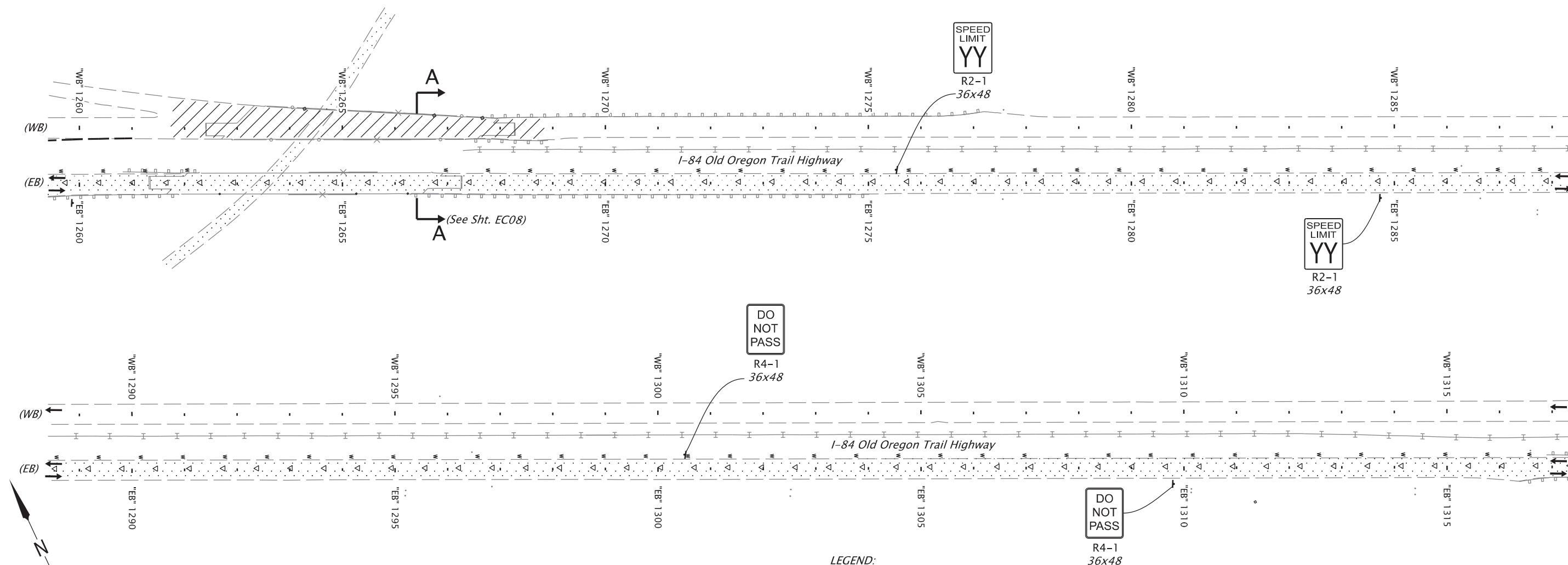
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT
OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

Designer: Kyle O'Brien Reviewer: Mark J. Kightlinger
Drafter: Kyle O'Brien Checker: Mark J. Kightlinger







TRAFFIC CONTROL PLAN

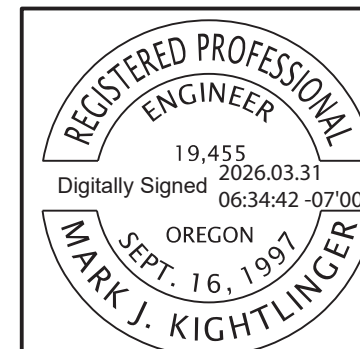
SHEET NO. EC03

STAGE I
PHASE II



LEGEND:

-  Under traffic
-  Under construction
-  Temp. plastic drums on 40' max. spacing
-  Surface mounted tubular markers on 40' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing



RENEWS: 6-30-2027

FINAL ELECTRONIC DOCUMENT
AVAILABLE UPON REQUEST

OREGON DEPARTMENT
OF TRANSPORTATION



**I-84: RIETH INTERCHANGE AND
UMATILLA RIVER BRIDGES PROJECT**
OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

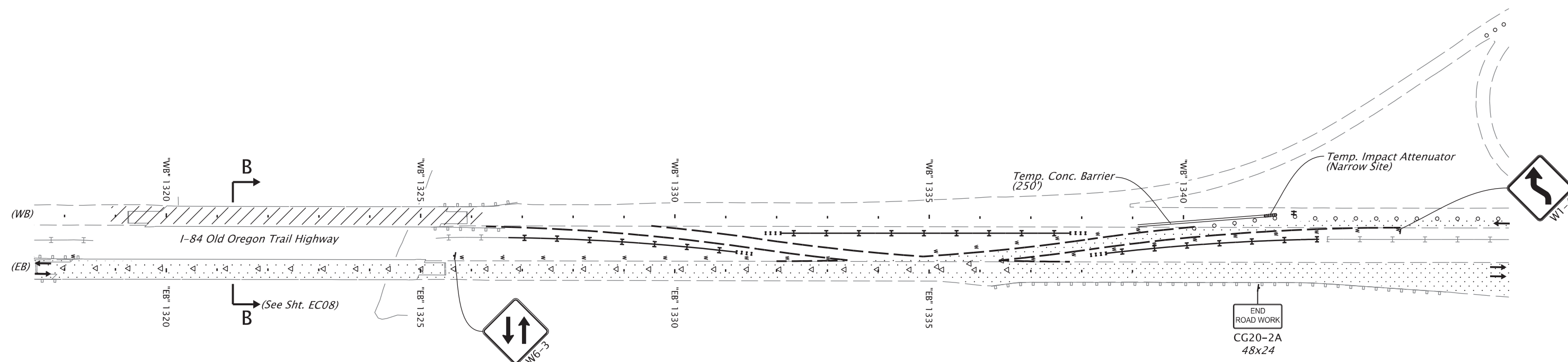
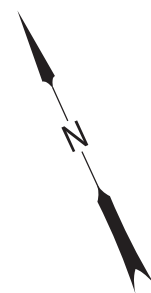
Designer: Kyle O'Brien
Drafter: Kyle O'Brien

Reviewer: Mark J. Kightlinger
Checker: Mark J. Kightlinger







TRAFFIC CONTROL PLAN

SHEET NO.
EC04

STAGE I
PHASE II



LEGEND:

-  Under traffic
-  Under construction
-  Temp. plastic drums on 40' max. spacing
-  Surface mounted tubular markers on 40' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing



RENEWS: 6-30-2027

OREGON DEPARTMENT OF TRANSPORTATION



**I-84: RIETH INTERCHANGE AND
UMATILLA RIVER BRIDGES PROJECT**
OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

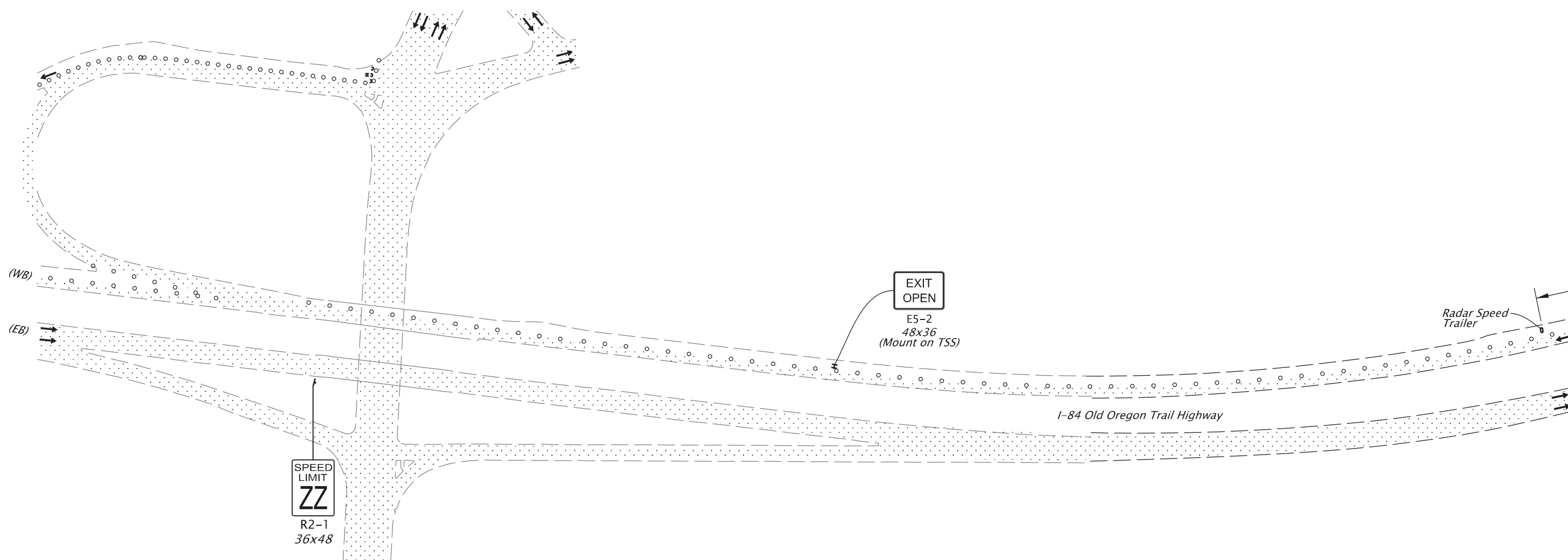
Designer: Kyle O'Brien
Drafter: Kyle O'Brien

Reviewer: Mark J. Kightlinger
Checker: Mark J. Kightlinger







TRAFFIC CONTROL PLAN

SHEET NO.
EC05


STAGE I
PHASE II



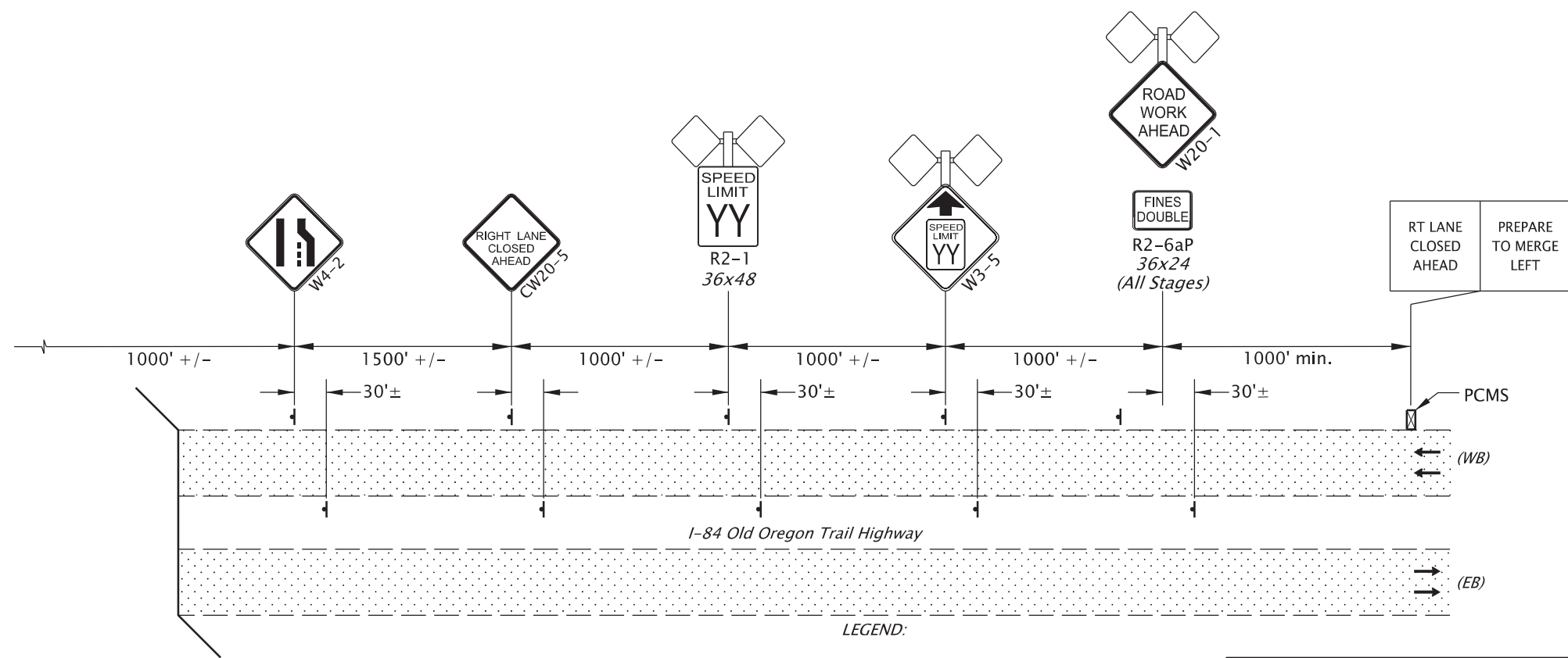
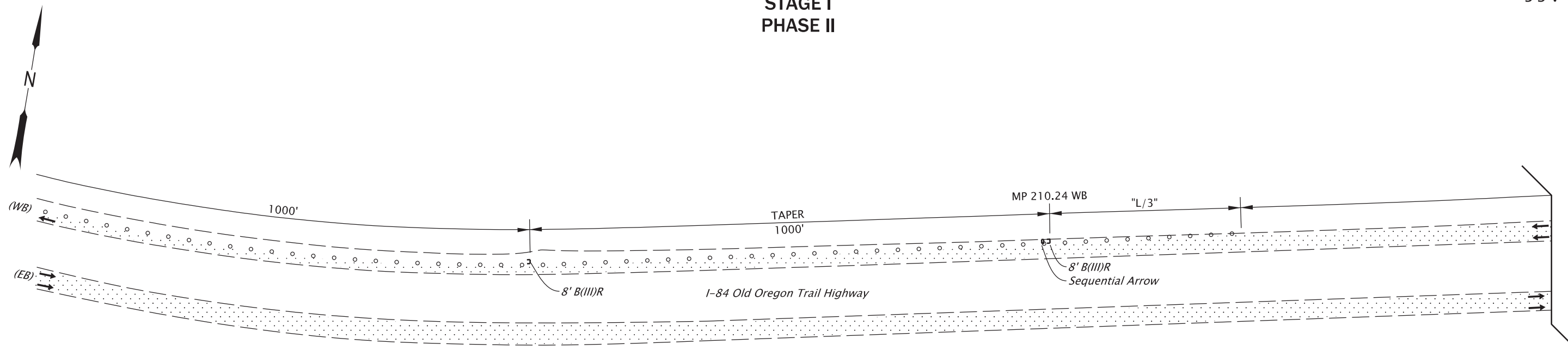
LEGEND:

-  Under traffic
-  Under construction
-  Temp. plastic drums on 40' max. spacing
-  Surface mounted tubular markers on 40' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing


 REGISTERED PROFESSIONAL ENGINEER
 19,455
 Digitally Signed 2026.03.31 06:33:13 -07'00"
 OREGON
 SEPT. 16, 1997
 MARK J. KIGHTLINGER
 RENEWS: 6-30-2027

OREGON DEPARTMENT OF TRANSPORTATION 	
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Kyle O'Brien Drafter: Kyle O'Brien	Reviewer: Mark J. Kightlinger Checker: Mark J. Kightlinger
TRAFFIC CONTROL PLAN	
SHEET NO. EC06	

STAGE I
PHASE II



LEGEND:

- Under traffic
- Under construction
- Temp. plastic drums on 40' max. spacing
- Surface mounted tubular markers on 40' max. spacing
- Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
- Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing

REGISTERED PROFESSIONAL ENGINEER
19,455
Digitally Signed 2026.03.31 06:32:38 -07'00'
OREGON
SEPT. 16, 1997
MARK J. KIGHTLINGER
RENEWS: 6-30-2027

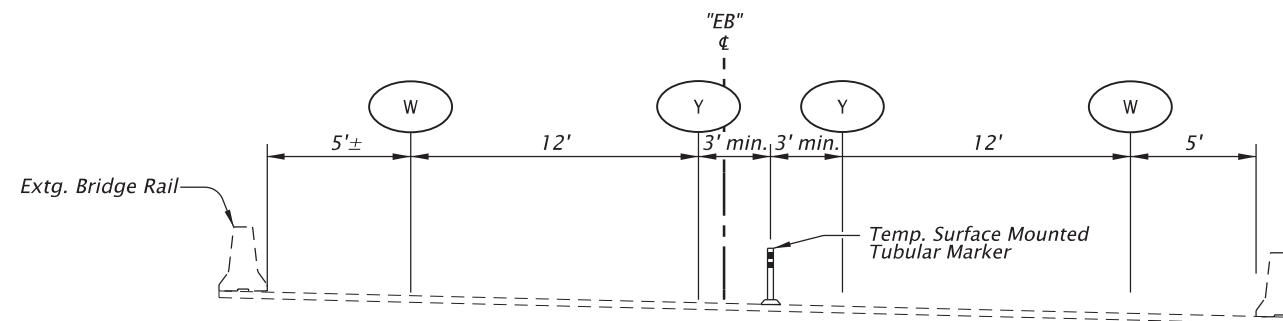
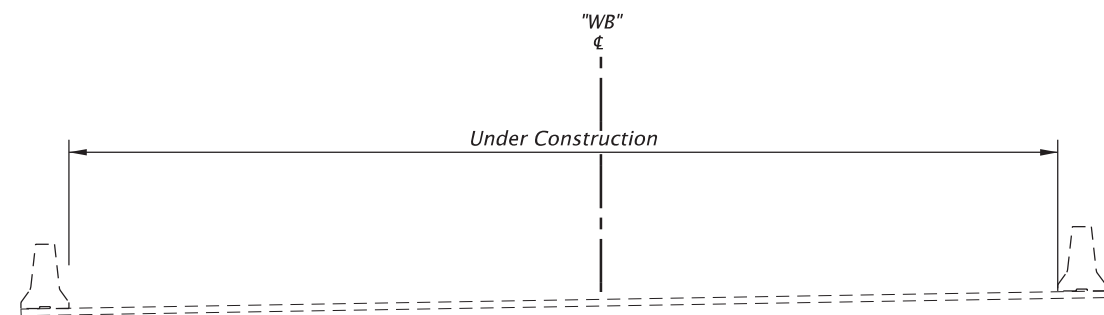
OREGON DEPARTMENT OF TRANSPORTATION

I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT
OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

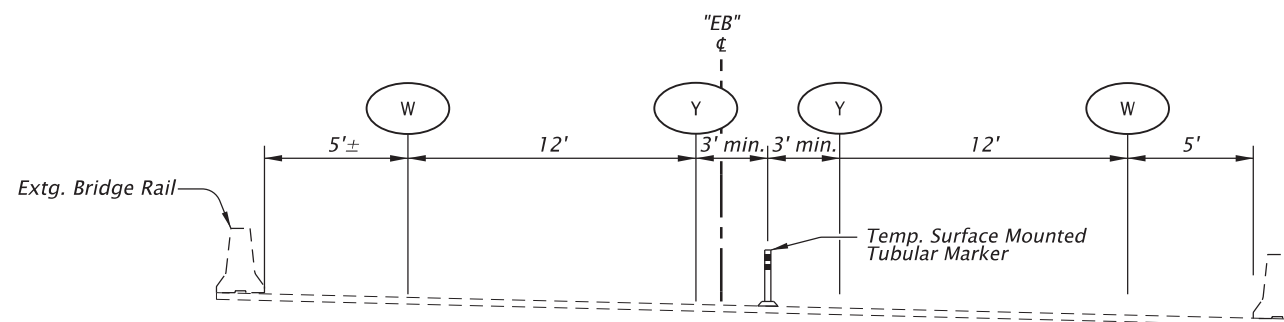
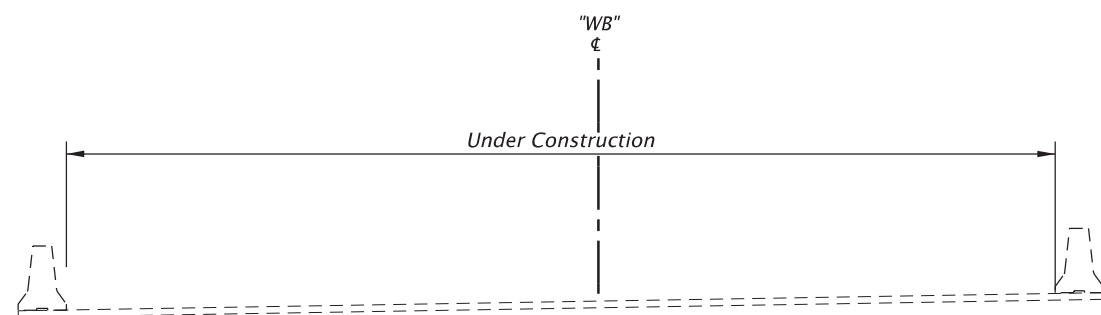
Designer: Kyle O'Brien Reviewer: Mark J. Kightlinger
Drafter: Kyle O'Brien Checker: Mark J. Kightlinger

TRAFFIC CONTROL PLAN SHEET NO. EC07

STAGE I
PHASE II




SECTION A - A
(See Sht. EC04)



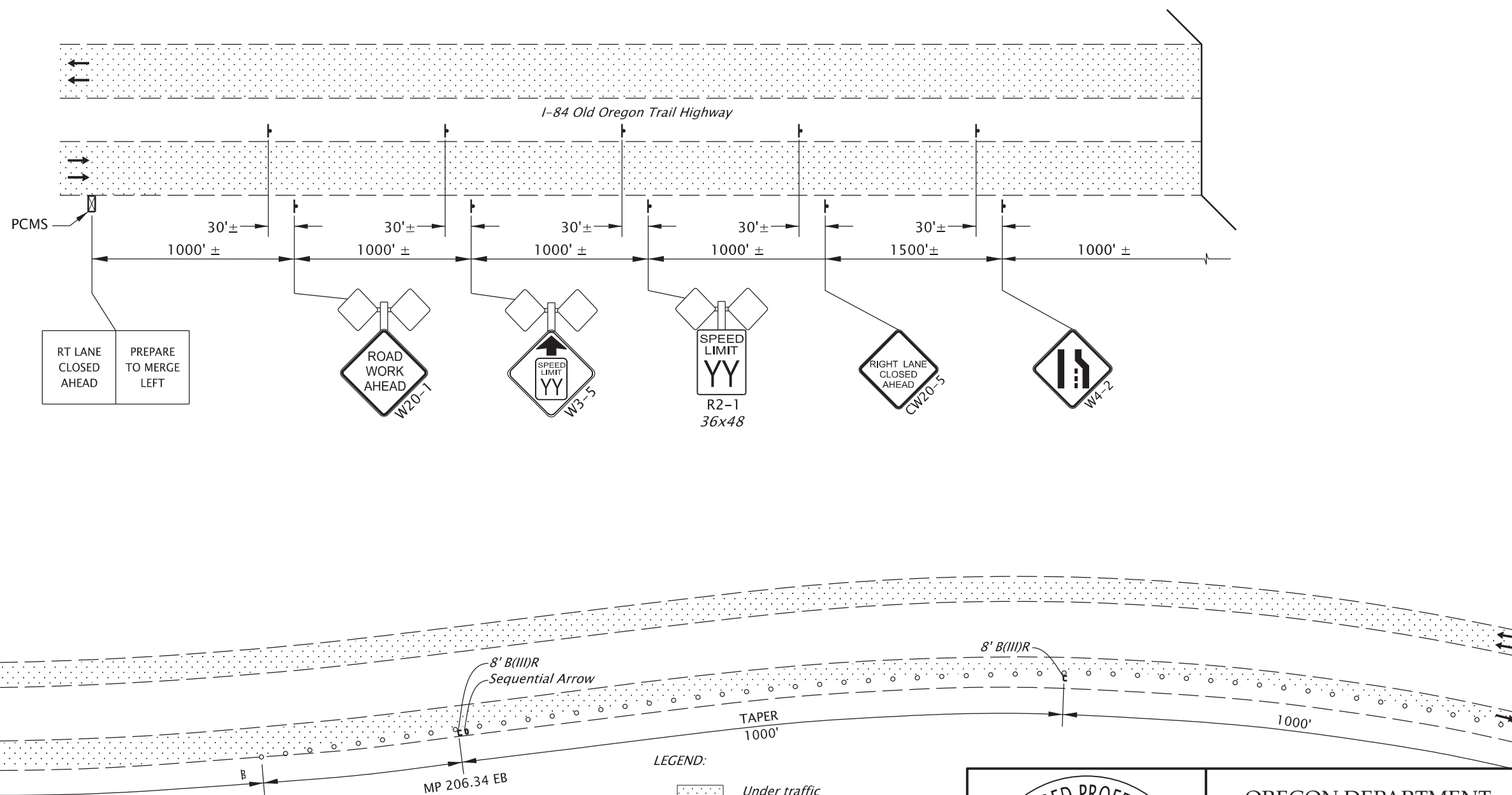
SECTION B - B
(See Sht. EC05)

- W Inst. 4" white line
- Y Inst. 4" yellow line



 <p>OREGON DEPARTMENT OF TRANSPORTATION</p>	
<p>I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY</p>	
Designer: Kyle O'Brien Drafter: Kyle O'Brien	Reviewer: Mark J. Kightlinger Checker: Mark J. Kightlinger
<p>TRAFFIC CONTROL PLAN</p>	
SHEET NO. EC08	

STAGE II



NOTES:

- Install two "SPEED LIMIT ZZ" (R2-1) signs displaying the pre-construction speed limit. Do not install the two "SPEED LIMIT ZZ" signs if located 1000' or less in advance of existing SPEED LIMIT signs, or as directed.
- Speed Limit of "YY" shown on signs to be determined by an approved Speed Zone Order from the State Traffic Engineer.
- Cover all permanent signs conflicting with temporary signing.

LEGEND:

- Under traffic
- Under construction
- Temp. plastic drums on 40' max. spacing
- Surface mounted tubular markers on 40' max. spacing
- Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
- Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing

REGISTERED PROFESSIONAL ENGINEER
 19,455
 Digitally Signed 2026.03.31 06:31:31 -07'00'
 OREGON
 SEPT. 16, 1997
 MARK J. KIGHTLINGER
 RENEWS: 6-30-2027

OREGON DEPARTMENT OF TRANSPORTATION

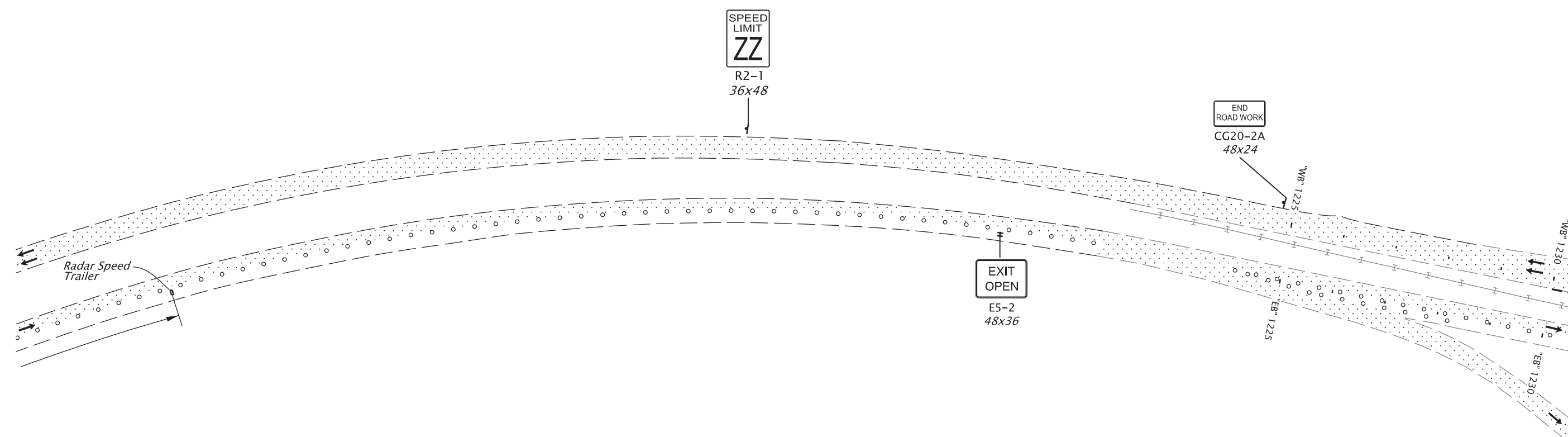
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT
 OLD OREGON TRAIL HIGHWAY
 UMATILLA COUNTY

Designer: Kyle O'Brien Reviewer: Mark J. Kightlinger
 Drafter: Kyle O'Brien Checker: Mark J. Kightlinger







TRAFFIC CONTROL PLAN


SHEET NO. ED01


STAGE II



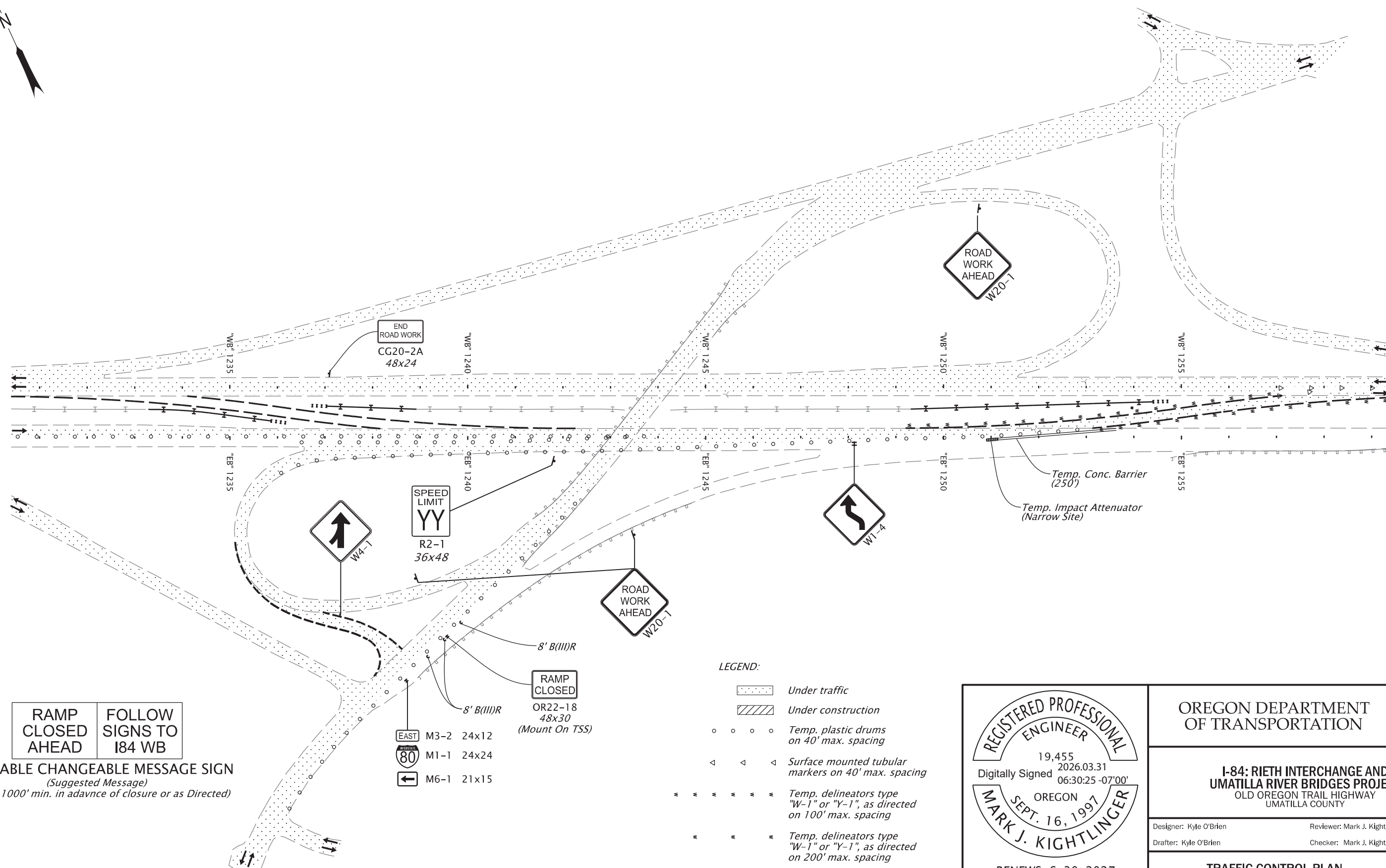
LEGEND:

-  Under traffic
-  Under construction
-  Temp. plastic drums on 40' max. spacing
-  Surface mounted tubular markers on 40' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing


 RENEWS: 6-30-2027

 OREGON DEPARTMENT OF TRANSPORTATION	
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Kyle O'Brien Drafter: Kyle O'Brien	Reviewer: Mark J. Kightlinger Checker: Mark J. Kightlinger
TRAFFIC CONTROL PLAN	
SHEET NO. ED02	

STAGE II



RAMP CLOSED AHEAD | **FOLLOW SIGNS TO I84 WB**
 PORTABLE CHANGEABLE MESSAGE SIGN
 (Suggested Message)
 (Locate 1000' min. in advance of closure or as Directed)

- 8' B(III)R
- RAMP CLOSED**
OR22-18
48x30
(Mount On TSS)
- 8' B(III)R
- SPEED LIMIT**
YY
R2-1
36x48
- END ROAD WORK**
CG20-2A
48x24
- ROAD WORK AHEAD**
W4-1
- ROAD WORK AHEAD**
W20-1
- ROAD WORK AHEAD**
W1-4
- ROAD WORK AHEAD**
W20-1
- Temp. Conc. Barrier (250')
- Temp. Impact Attenuator (Narrow Site)

- LEGEND:**
- Under traffic
 - Under construction
 - Temp. plastic drums on 40' max. spacing
 - Surface mounted tubular markers on 40' max. spacing
 - Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
 - Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing

REGISTERED PROFESSIONAL ENGINEER
 19,455
 Digitally Signed 2026.03.31 06:30:25 -07'00'
 OREGON
 SEPT. 16, 1997
MARK J. KIGHTLINGER
 RENEWS: 6-30-2027

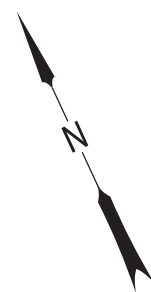
OREGON DEPARTMENT OF TRANSPORTATION

I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT
 OLD OREGON TRAIL HIGHWAY
 UMATILLA COUNTY

Designer: Kyle O'Brien | Reviewer: Mark J. Kightlinger
 Drafter: Kyle O'Brien | Checker: Mark J. Kightlinger

TRAFFIC CONTROL PLAN | SHEET NO. ED03

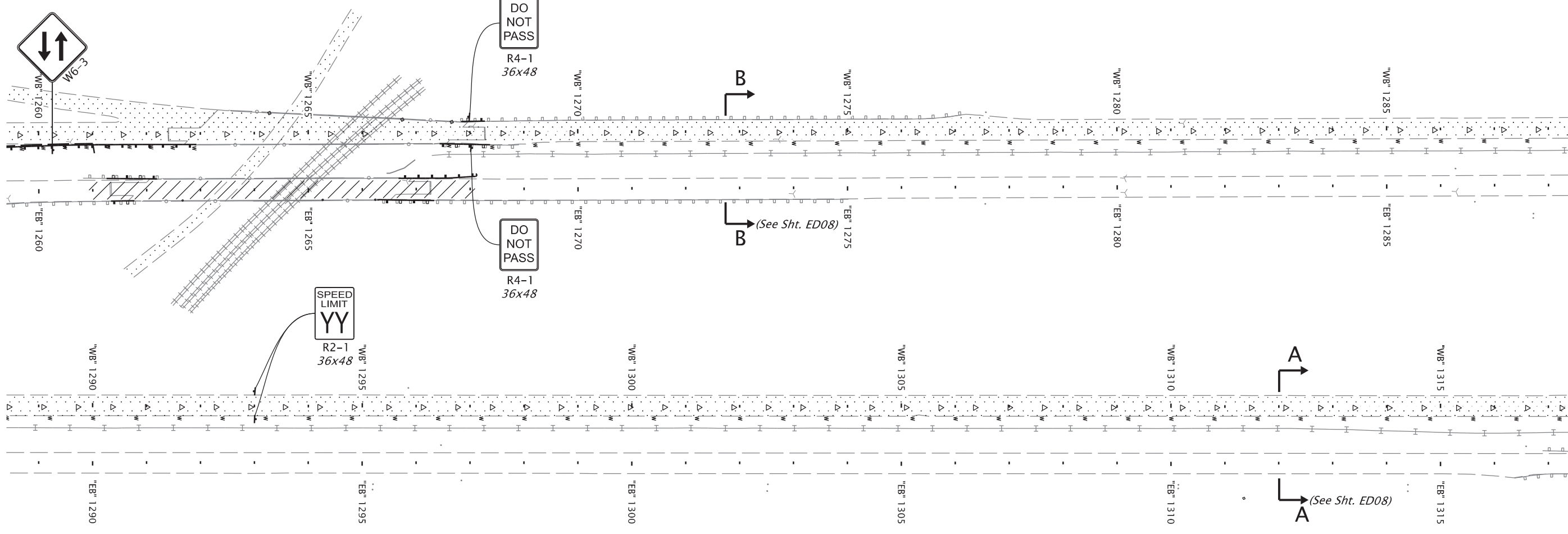
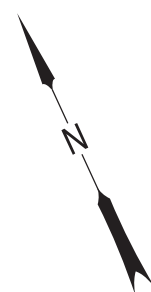
STAGE II









DO NOT PASS
R4-1
36x48

DO NOT PASS
R4-1
36x48


SPEED LIMIT
YY
R2-1
36x48



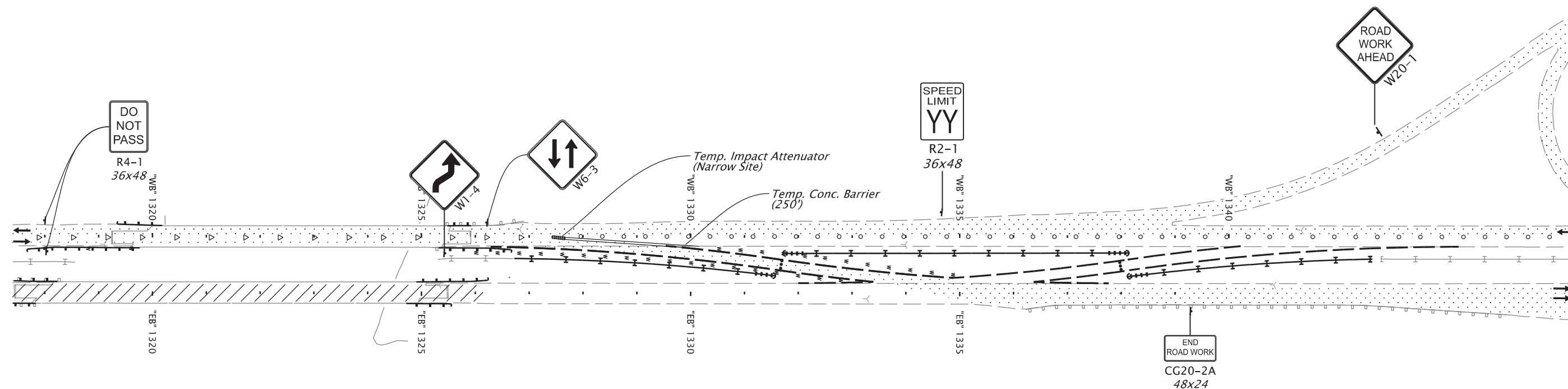
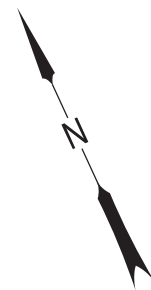
LEGEND:

-  Under traffic
-  Under construction
-  Temp. plastic drums on 40' max. spacing
-  Surface mounted tubular markers on 40' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing








 Digitally Signed 2026.03.31 06:29:52 -07'00'
 RENEWS: 6-30-2027

 OREGON DEPARTMENT OF TRANSPORTATION	
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Kyle O'Brien Drafter: Kyle O'Brien	Reviewer: Mark J. Kightlinger Checker: Mark J. Kightlinger
TRAFFIC CONTROL PLAN	
SHEET NO. ED04	


STAGE II



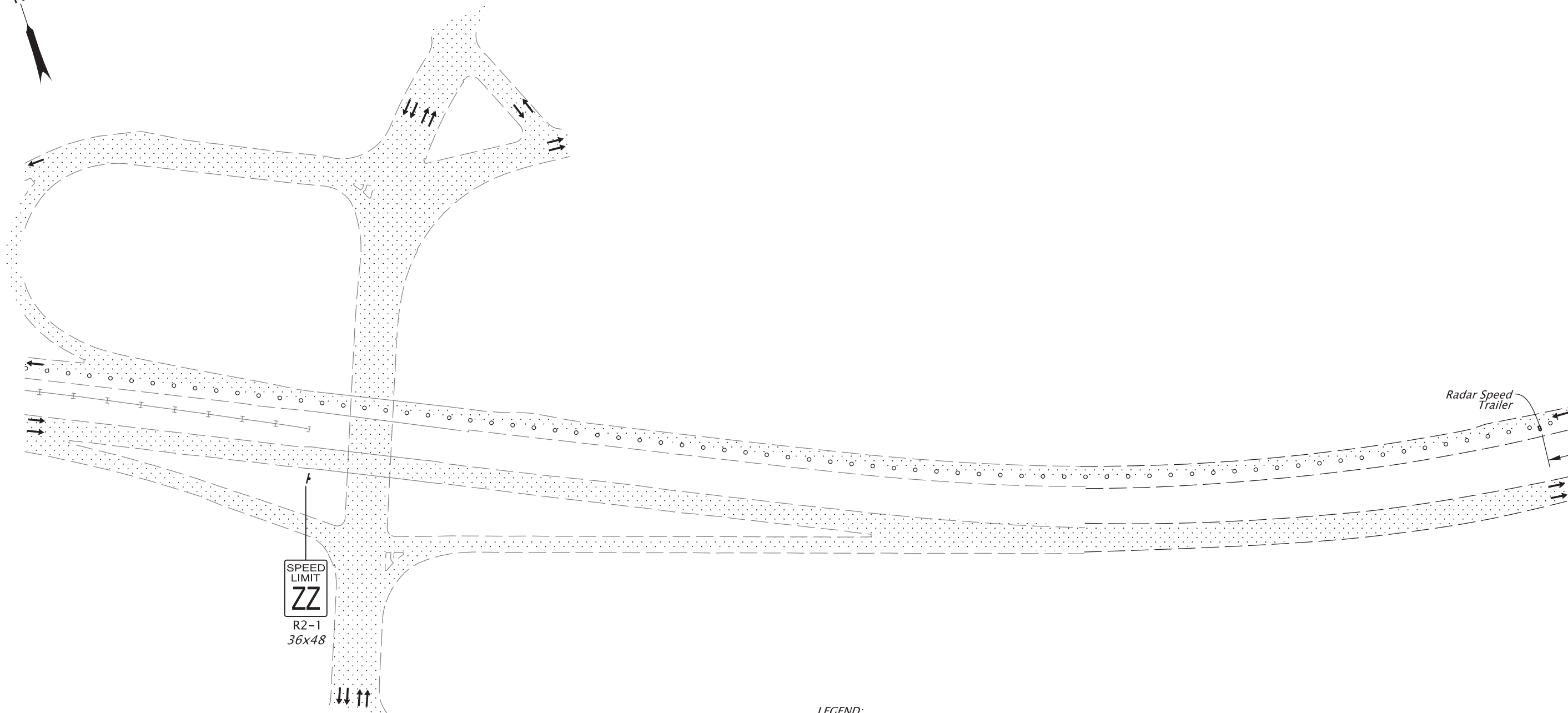
LEGEND:

-  Under traffic
-  Under construction
-  Temp. plastic drums on 40' max. spacing
-  Surface mounted tubular markers on 40' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
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 RENEWS: 6-30-2027







OREGON DEPARTMENT OF TRANSPORTATION 	
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Kyle O'Brien Drafter: Kyle O'Brien	Reviewer: Mark J. Kightlinger Checker: Mark J. Kightlinger
TRAFFIC CONTROL PLAN	
SHEET NO. ED05	

STAGE II




SPEED LIMIT
ZZ
R2-1
36x48

LEGEND:

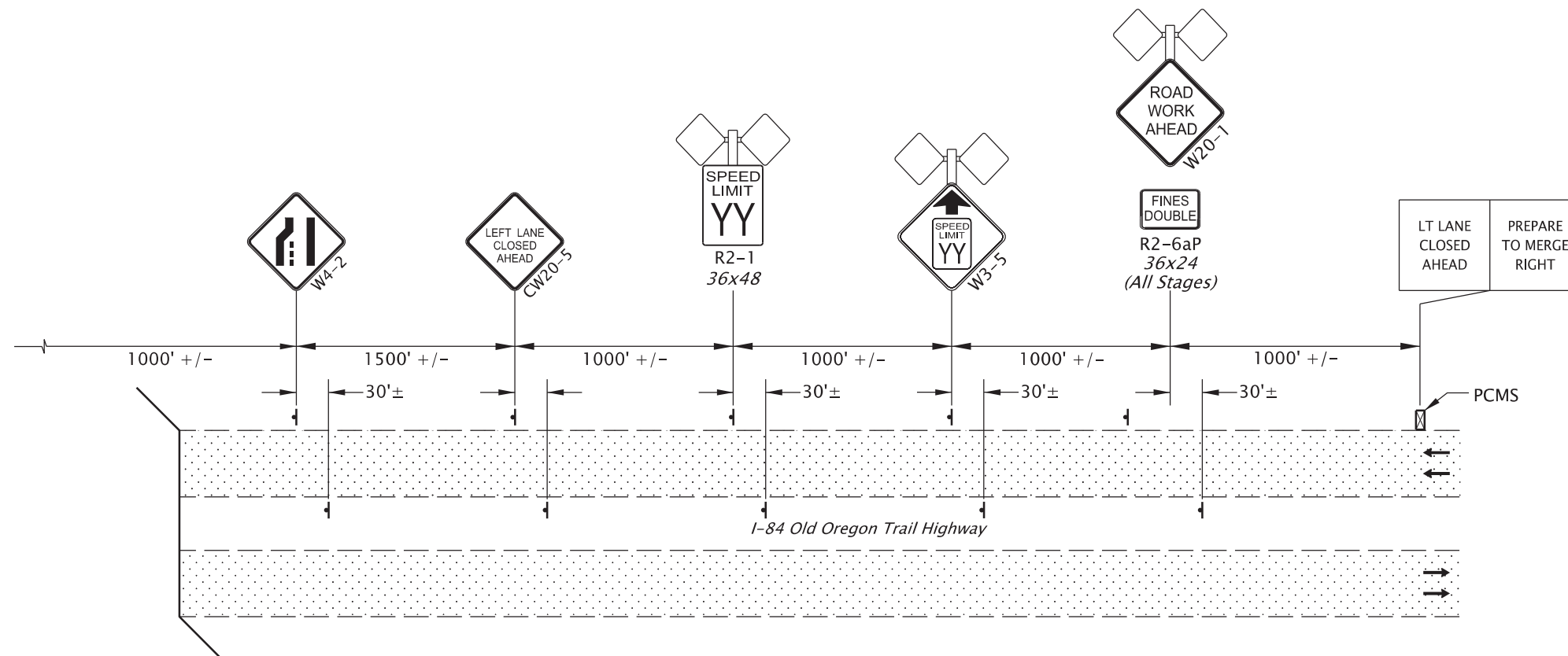
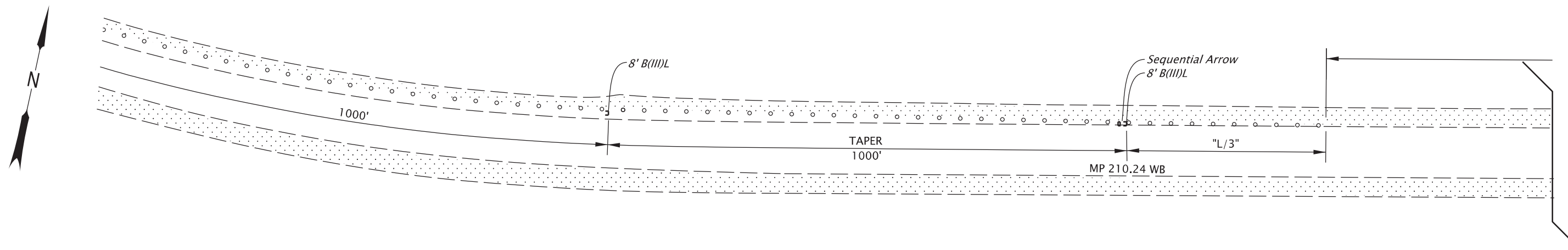
-  Under traffic
-  Under construction
-  Temp. plastic drums on 40' max. spacing
-  Surface mounted tubular markers on 40' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
-  Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing

REGISTERED PROFESSIONAL
ENGINEER
19,455
Digitally Signed 2026.03.31 06:28:40 -07'00'
OREGON
SEPT. 16, 1997
MARK J. KIGHTLINGER

RENEWS: 6-30-2027

OREGON DEPARTMENT OF TRANSPORTATION		
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY		
Designer: Kyle O'Brien	Reviewer: Mark J. Kightlinger	
Drafter: Kyle O'Brien	Checker: Mark J. Kightlinger	
TRAFFIC CONTROL PLAN		SHEET NO. ED06

STAGE II



LEGEND:

- Under traffic
- Under construction
- Temp. plastic drums on 40' max. spacing
- Surface mounted tubular markers on 40' max. spacing
- Temp. delineators type "W-1" or "Y-1", as directed on 100' max. spacing
- Temp. delineators type "W-1" or "Y-1", as directed on 200' max. spacing

REGISTERED PROFESSIONAL ENGINEER
 19,455
 Digitally Signed 2026.03.31 06:27:38 -07'00"
 OREGON
 SEPT. 16, 1997
 MARK J. KIGHTLINGER
 RENEWS: 6-30-2027

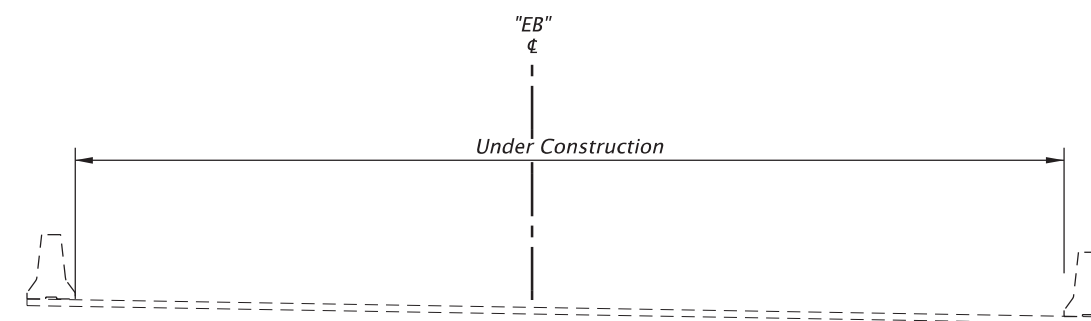
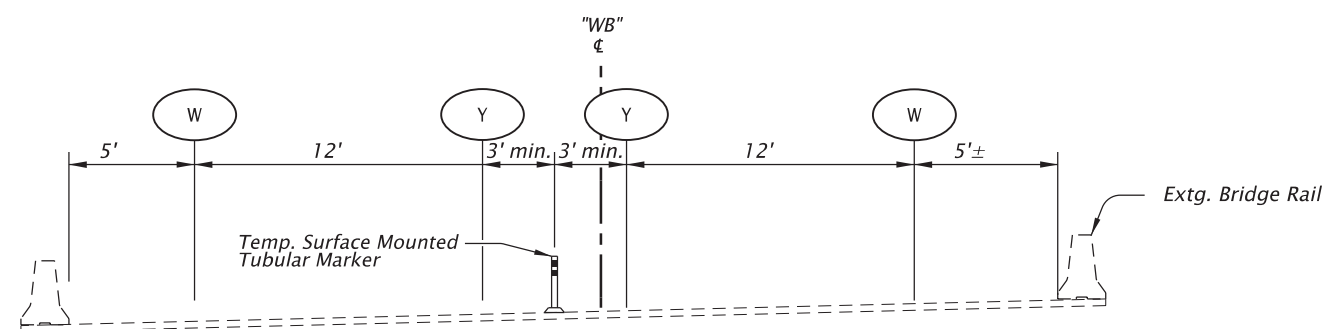
OREGON DEPARTMENT OF TRANSPORTATION

I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT
 OLD OREGON TRAIL HIGHWAY
 UMATILLA COUNTY

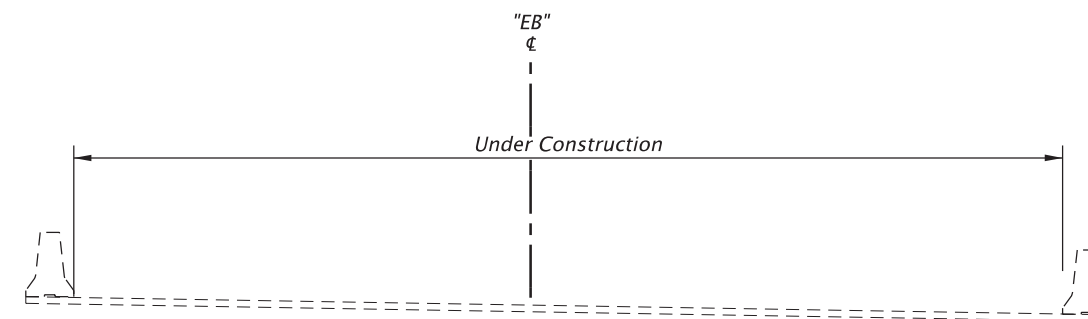
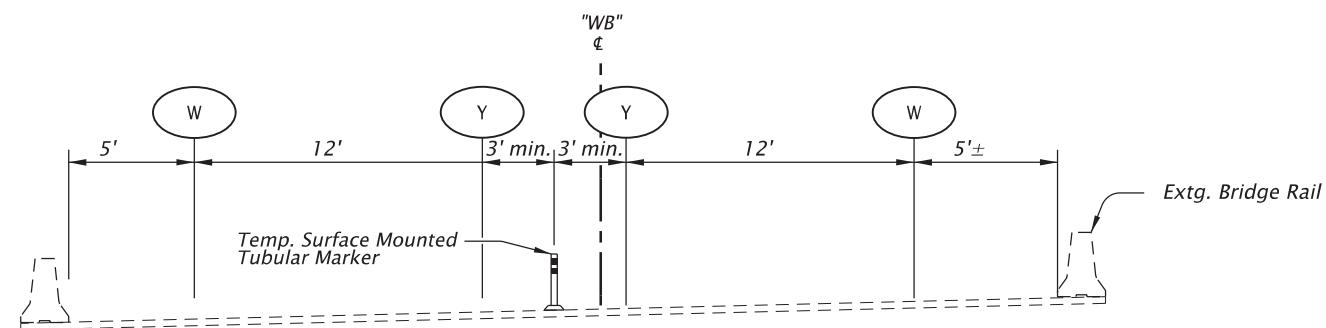
Designer: Kyle O'Brien Reviewer: Mark J. Kightlinger
 Drafter: Kyle O'Brien Checker: Mark J. Kightlinger

TRAFFIC CONTROL PLAN SHEET NO. ED07

STAGE II



SECTION A - A
(See Sht. ED04)

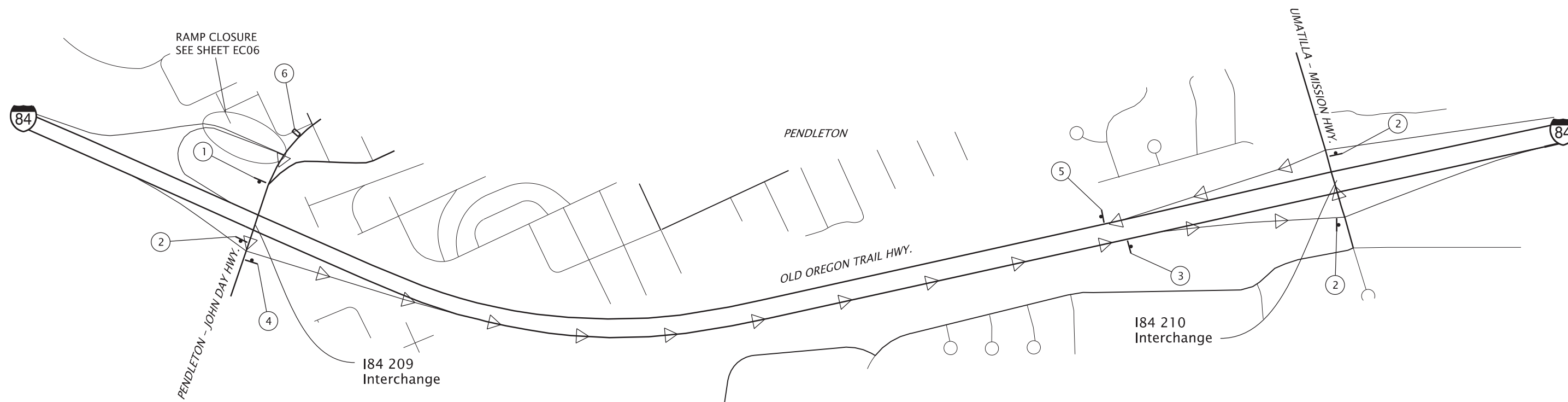


SECTION B - B
(See Sht. ED04)

- W Inst. 4" white line
- Y Inst. 4" yellow line



OREGON DEPARTMENT OF TRANSPORTATION		
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY		
Designer: Kyle O'Brien Drafter: Kyle O'Brien	Reviewer: Mark J. Kightlinger Checker: Mark J. Kightlinger	SHEET NO. ED08
TRAFFIC CONTROL PLAN		



M4-8 24x12
 M3-4 24x12
 M1-1 24x24
 M6-3 21x15
 ①

M4-8 24x12
 M3-4 24x12
 M1-1 24x24
 M6-1 21x15
 ②

M4-8 24x12
 M3-4 24x12
 M1-1 24x24
 M6-2 21x15
 ③

M4-8 24x12
 M3-4 24x12
 M1-1 24x24
 M6-1 21x15
 ④

CG20-5 30x24
 ⑤

7 Days Prior to During Construction

RAMP CLOSED MMDD-DD	USE DETOUR
---------------------------	---------------

During Construction

RAMP CLOSED AHEAD	USE DETOUR
-------------------------	---------------

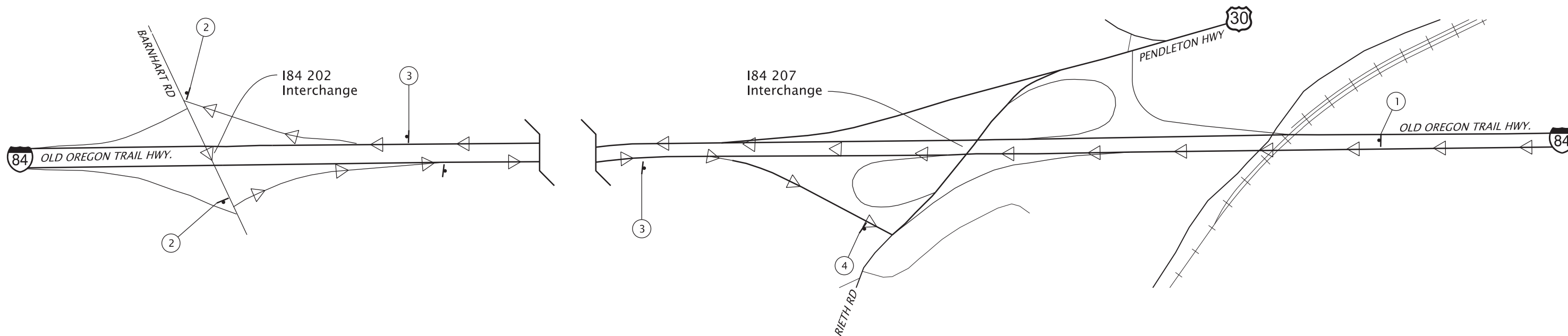
PORTABLE CHANGEABLE MESSAGE SIGN

(Suggested Message)
(Locate As Directed)

⑥

REGISTERED PROFESSIONAL
 ENGINEER
 19,455
 Digitally Signed 2026.03.31 06:41:54
 -07'00"
 OREGON
 SEPT. 16, 1997
 MARK J. KIGHTLINGER
 RENEWS: 6-30-2027

OREGON DEPARTMENT OF TRANSPORTATION		
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY		
Designer: Kyle O'Brien Drafter: Kyle O'Brien	Reviewer: Mark J. Kightlinger Checker: Mark J. Kightlinger	SHEET NO. EE01
TRAFFIC CONTROL DETOUR PLAN		



DETOUR M4-8 24x12

30 M1-4 24x24

M6-3 21x15

1

DETOUR M4-8 24x12

30 M1-4 24x24

M6-1 21x15

2

DETOUR M4-8 24x12

30 M1-4 24x24

M6-2 21x15

3

END
DETOUR CG20-5 30x24

4

7 Days Prior to During Construction

EXIT 207 CLOSED MMDD-DD	USE NEXT EXIT
-------------------------------	---------------------

During Construction

EXIT 207 CLOSED	USE NEXT EXIT
-----------------------	---------------------

VARIABLE CHANGEABLE MESSAGE SIGN

(Suggested Message)
(I84 MP 214.00 WB)

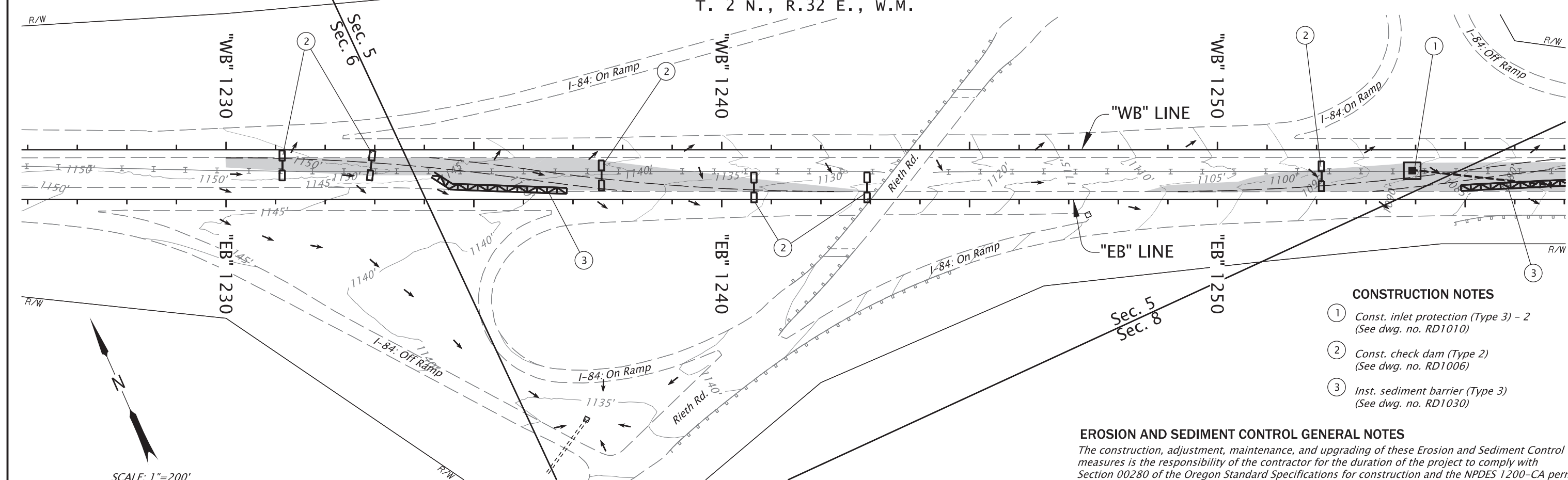
5



OREGON DEPARTMENT OF TRANSPORTATION		
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY		
Designer: Kyle O'Brien	Reviewer: Mark J. Kightlinger	
Drafter: Kyle O'Brien	Checker: Mark J. Kightlinger	
TRAFFIC CONTROL DETOUR PLAN		SHEET NO. EE02

Phase 1 & 2 - Clearing & Grubbing, Earthwork, Drainage & Paving
(Season 1)

T. 2 N., R.32 E., W.M.



- CONSTRUCTION NOTES**
- ① Const. inlet protection (Type 3) - 2
(See dwg. no. RD1010)
 - ② Const. check dam (Type 2)
(See dwg. no. RD1006)
 - ③ Inst. sediment barrier (Type 3)
(See dwg. no. RD1030)

EROSION AND SEDIMENT CONTROL GENERAL NOTES

The construction, adjustment, maintenance, and upgrading of these Erosion and Sediment Control measures is the responsibility of the contractor for the duration of the project to comply with Section 00280 of the Oregon Standard Specifications for construction and the NPDES 1200-CA permit.

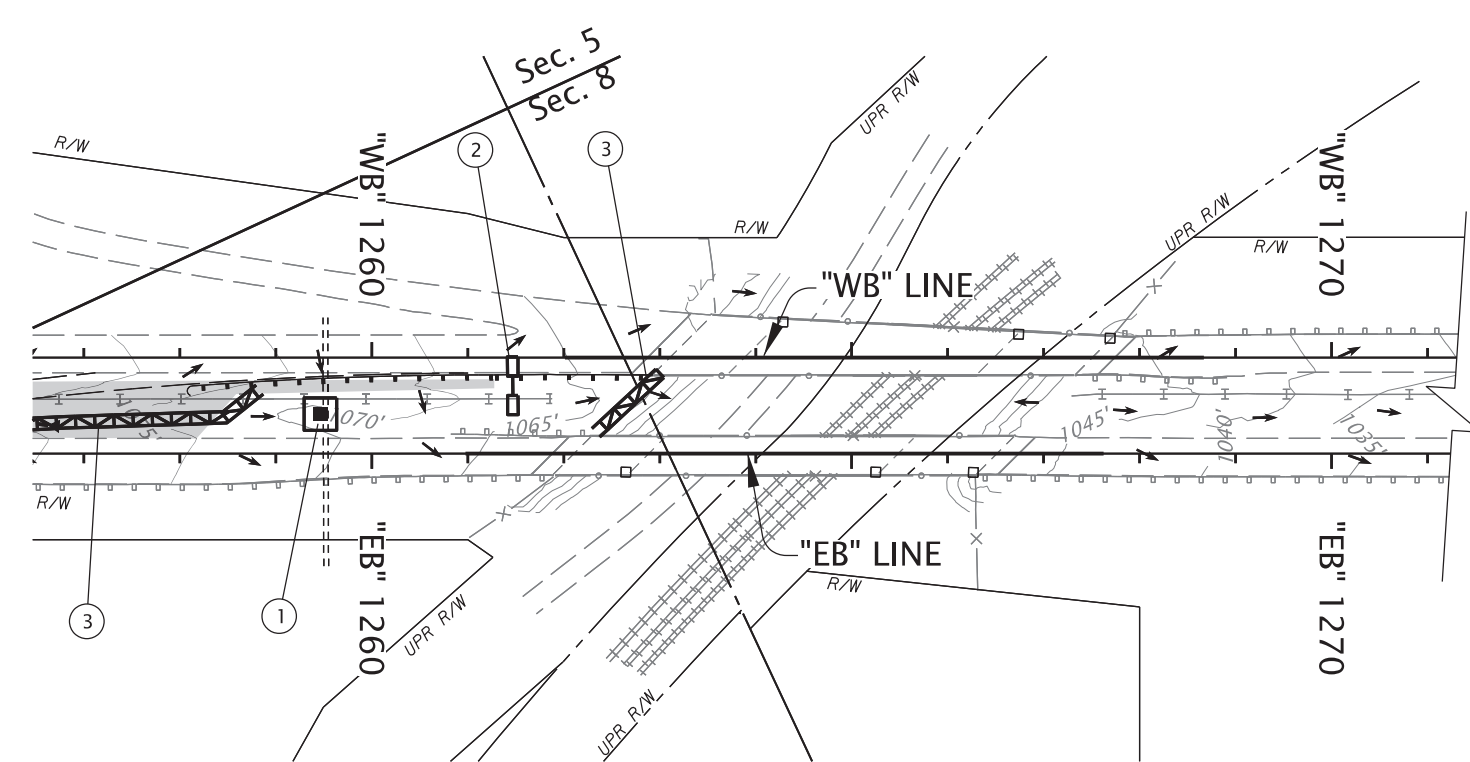
Erosion and Sediment Control measures shown on this plan are for anticipated site conditions. Adjust or upgrade these measures for unexpected storm events to ensure that sediment and sediment-laden water does not leave the site.

Develop a revised plan of the Erosion and Sediment Control measures shown as required by Section 00280, Oregon Standard Specifications for Construction. Implement this plan for all clearing and grading activities and in segments applicable to each staging phase. Construct in such a manner so as to ensure that sediment and sediment-laden water does not enter the roadway or drainage system, or violate applicable water standards.

Install measures within the right-of-way unless directed otherwise.

Install inlet protection prior to construction activities.

Perform permanent seeding of all disturbed soils and slopes as per section 01030 of the Oregon Standard Specifications for construction at the completion of work for season 1.



- STANDARD DRAWINGS**
- RD1006 Check Dams Type 2 and 6
 - RD1010 Inlet Protection Type 2, 3, 6, 7 10 and 11
 - RD1030 Sediment Barrier Type 2, 3 and 4

LEGEND

- Clearing & Grubbing area
- Inlet protection
- Check dam in ditch
- Sediment barrier, straw wattle
- Flow direction



RENEWS: 06-30-2027

FINAL ELECTRONIC DOCUMENT
AVAILABLE UPON REQUEST

OREGON DEPARTMENT OF TRANSPORTATION



I-84: RIETH INTERCHANGE AND
UMATILLA RIVER BRIDGES PROJECT
OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

Designer: Mark Kightlinger

Reviewer: Lauren Juzeler

Drafter: Mark Kightlinger

Checker: Lauren Juzeler

EROSION AND SEDIMENT CONTROL PLAN

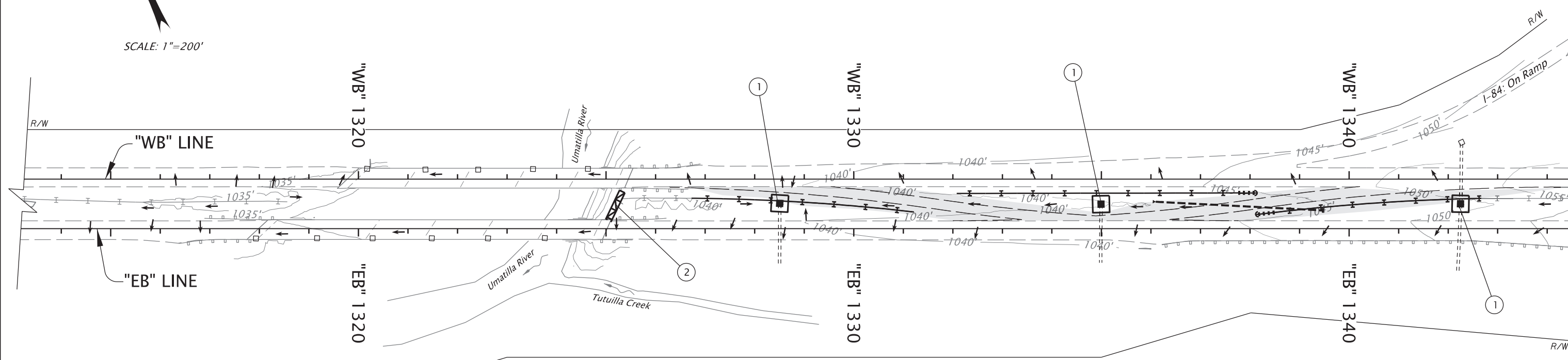
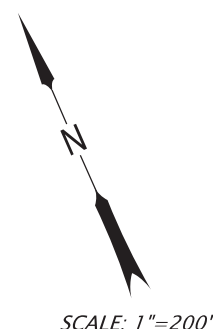
SHEET NO.
FB01

Phase 1 & 2 - Clearing & Grubbing, Earthwork, Drainage & Paving
(Season 1)

Sec. 9, T. 2 N., R.32 E., W.M.

CONSTRUCTION NOTES

- ① Const. inlet protection (Type 3) - 3
- ② Inst. sediment barrier (Type 3)
(See dwg. no. RD1030)



LEGEND

- Clearing & Grubbing area
- Inlet protection
- Check dam in ditch
- Sediment barrier, straw wattle
- Flow direction

EROSION AND SEDIMENT CONTROL GENERAL NOTES

Perform permanent seeding of all disturbed soils and slopes as per section 01030 of the Oregon Standard Specifications for construction at the completion of work for season 1.

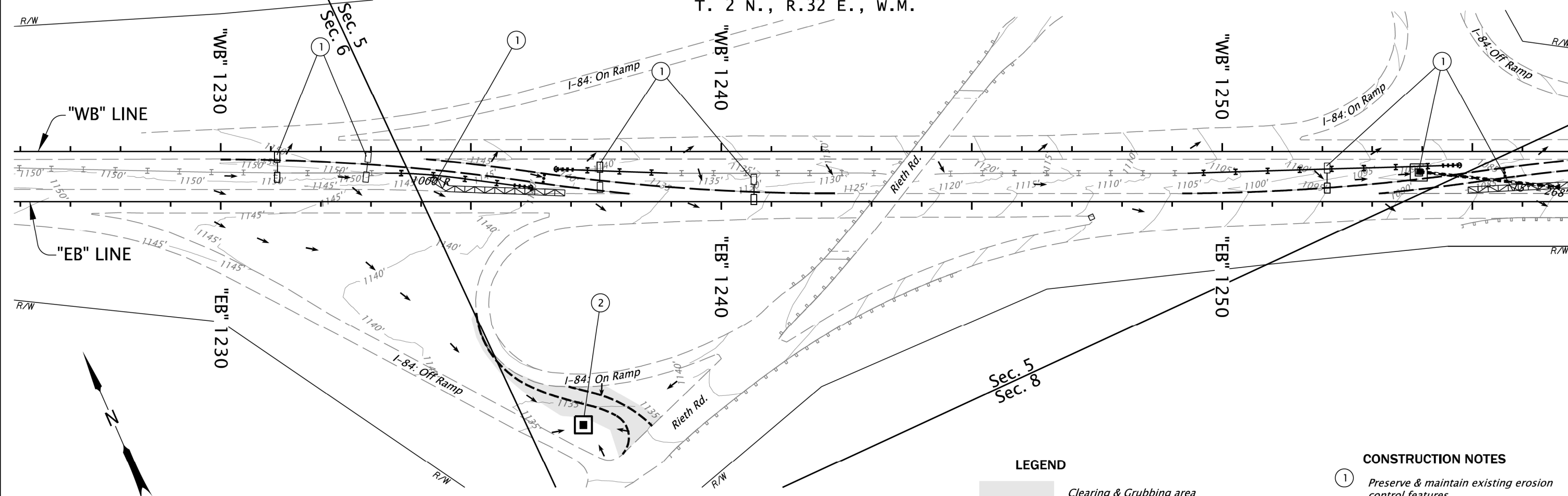
<p>OREGON DEPARTMENT OF TRANSPORTATION</p>	
<p>I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY</p>	
<p>Designer: Mark Kightlinger Drafter: Mark Kightlinger</p>	<p>Reviewer: Lauren Juzeler Checker: Lauren Juzeler</p>
<p>EROSION AND SEDIMENT CONTROL PLAN</p>	
<p>SHEET NO. FB02</p>	

RENEWS: 06-30-2027

FINAL ELECTRONIC DOCUMENT
AVAILABLE UPON REQUEST

Phase 1 & 2 - Clearing & Grubbing, Earthwork, Demolition & Construction
(Season 2)

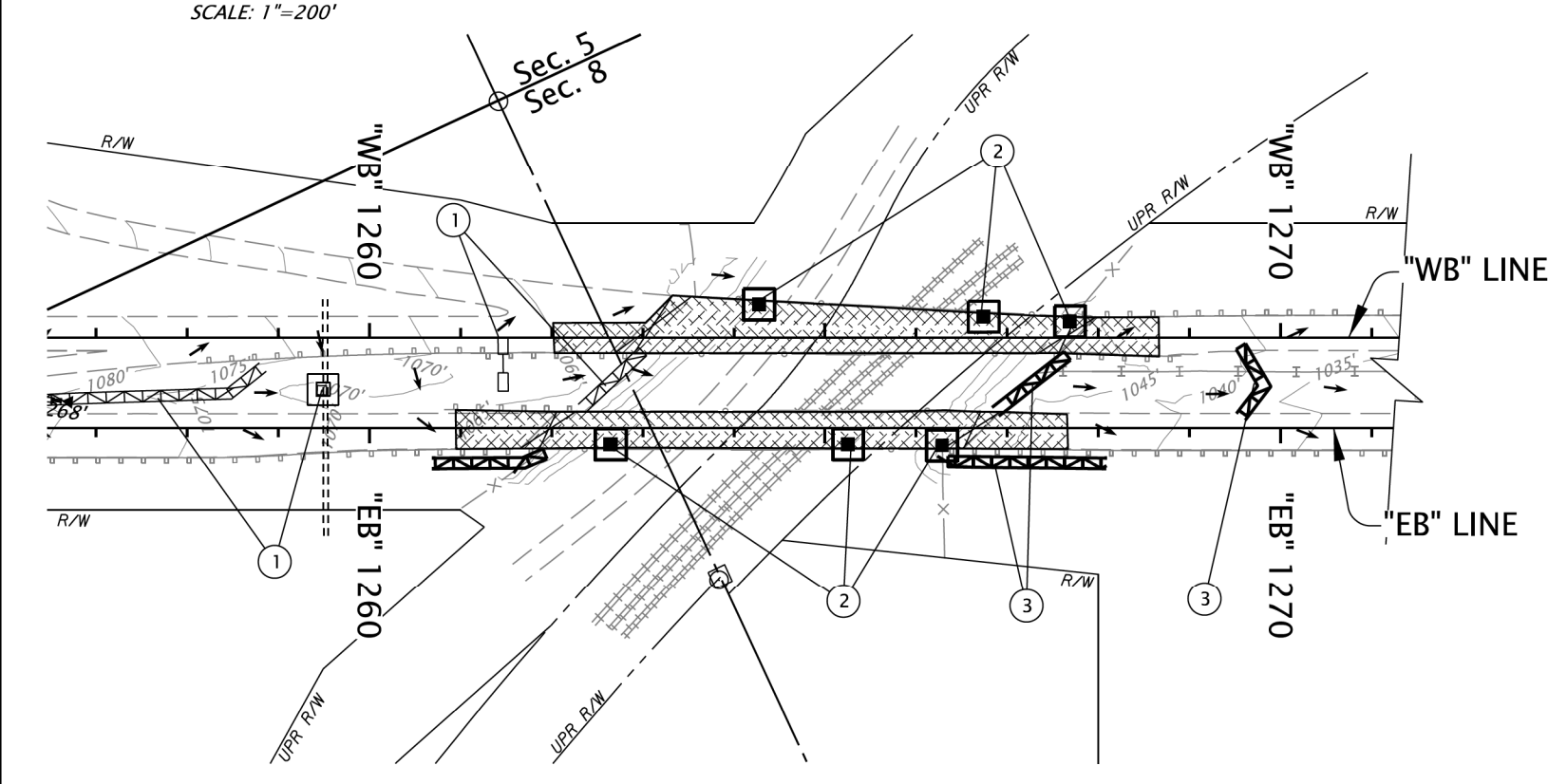
T. 2 N., R.32 E., W.M.



LEGEND

- Clearing & Grubbing area
- Demolition area
- Inlet protection
- Check dam
- Sediment barrier, straw wattle
- Flow direction

- CONSTRUCTION NOTES**
- ① Preserve & maintain existing erosion control features.
 - ② Const. inlet protection (Type 3) - 6
 - ③ Inst. sediment barrier (Type 3)



REGISTERED PROFESSIONAL ENGINEER
 19,455
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 OREGON
 SEPT. 16, 1997
MARK J. KIGHTLINGER

OREGON DEPARTMENT OF TRANSPORTATION

I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT
 OLD OREGON TRAIL HIGHWAY
 UMATILLA COUNTY

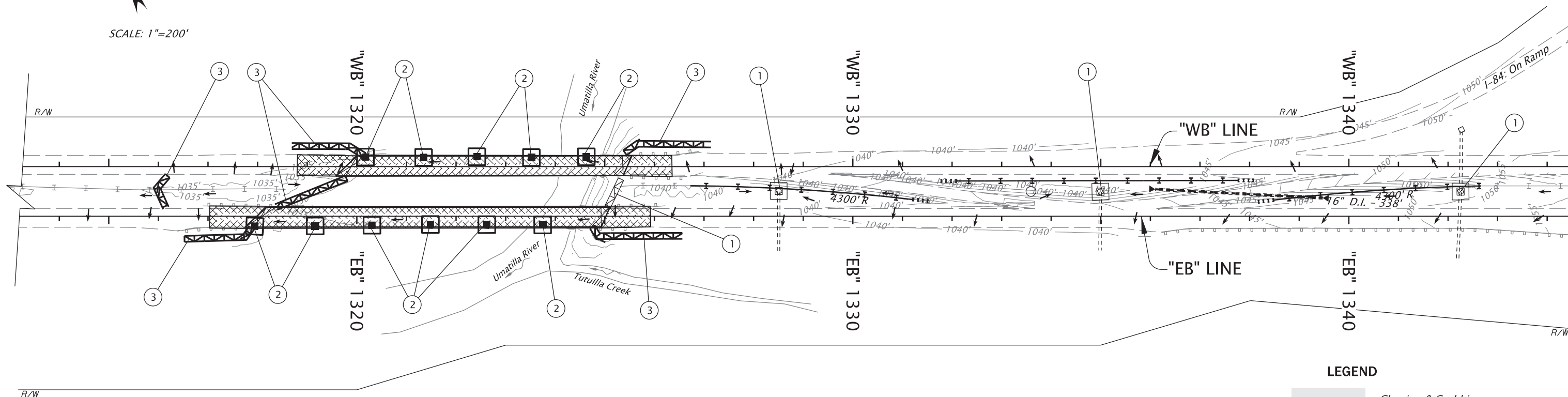
Designer: Mark Kightlinger Reviewer: Lauren Juzeler
 Drafter: Mark Kightlinger Checker: Lauren Juzeler

EROSION AND SEDIMENT CONTROL PLAN SHEET NO. FB03

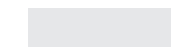





Phase 1 & 2 - Clearing & Grubbing, Earthwork, Demolition & Construction
(Season 2)
Sec. 9, T. 2 N., R.32 E., W.M.

- CONSTRUCTION NOTES**
- ① Preserve & maintain existing erosion control features.
 - ② Const. inlet protection (Type 3) - 11
 - ③ Inst. sediment barrier (Type 3)


SCALE: 1"=200'



LEGEND

-  Clearing & Grubbing area
-  Demolition area
-  Inlet protection
-  Check dam
-  Sediment barrier, straw wattle
-  Flow direction

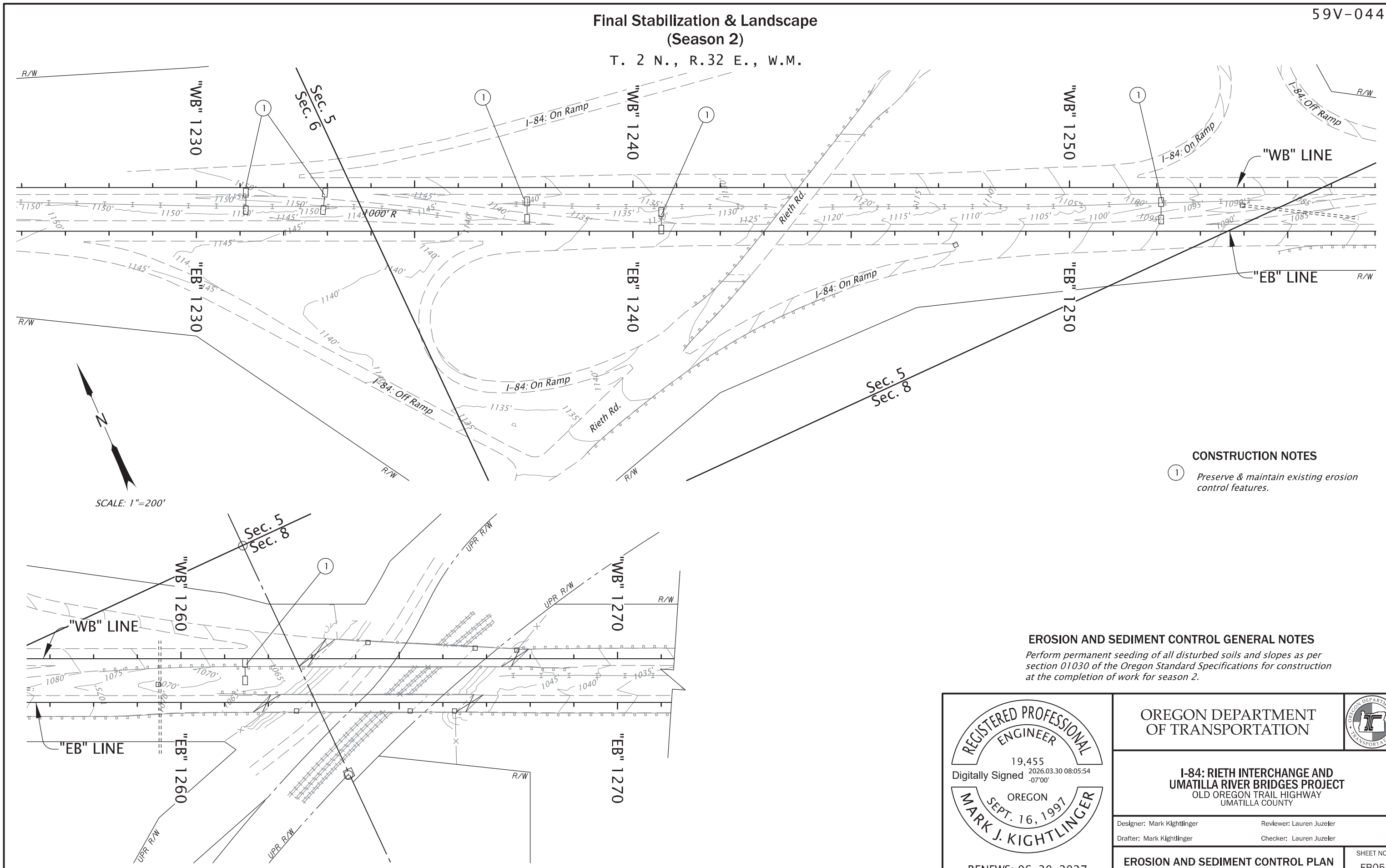


OREGON DEPARTMENT OF TRANSPORTATION 	
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Mark Kightlinger Drafter: Mark Kightlinger	Reviewer: Lauren Juzeler Checker: Lauren Juzeler
EROSION AND SEDIMENT CONTROL PLAN	
SHEET NO. FB04	

RENEWS: 06-30-2027

FINAL ELECTRONIC DOCUMENT
AVAILABLE UPON REQUEST

Final Stabilization & Landscape
(Season 2)
T. 2 N., R.32 E., W.M.




CONSTRUCTION NOTES

① Preserve & maintain existing erosion control features.

EROSION AND SEDIMENT CONTROL GENERAL NOTES
 Perform permanent seeding of all disturbed soils and slopes as per section 01030 of the Oregon Standard Specifications for construction at the completion of work for season 2.

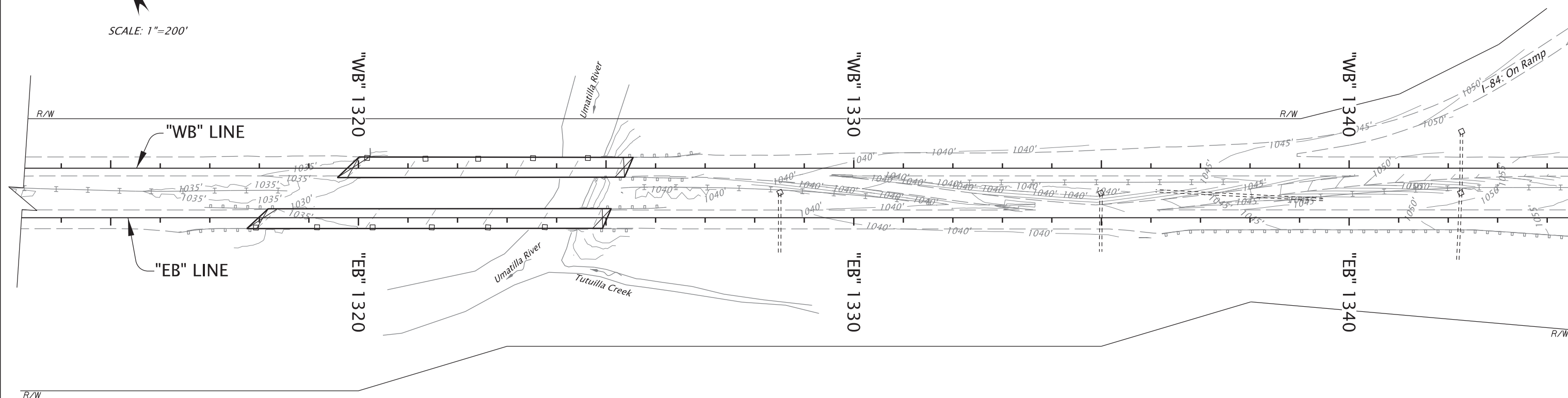
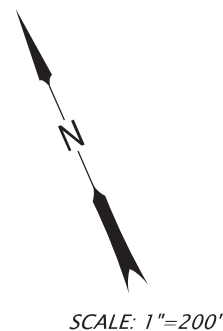


OREGON DEPARTMENT OF TRANSPORTATION 	
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Mark Kightlinger Drafter: Mark Kightlinger	Reviewer: Lauren Juzeler Checker: Lauren Juzeler
EROSION AND SEDIMENT CONTROL PLAN	SHEET NO. FB05

RENEWS: 06-30-2027

FINAL ELECTRONIC DOCUMENT
AVAILABLE UPON REQUEST


Final Stabilization & Landscape
(Season 2)
Sec. 9, T. 2 N., R.32 E., W.M.



EROSION AND SEDIMENT CONTROL GENERAL NOTES

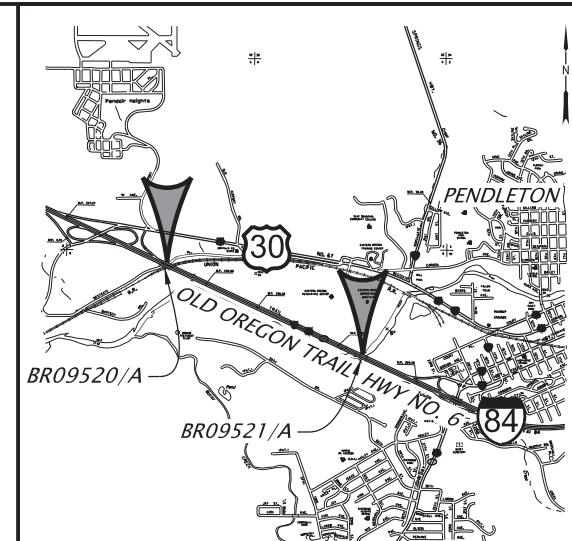
Perform permanent seeding of all disturbed soils and slopes as per section 01030 of the Oregon Standard Specifications for construction at the completion of work for season 2.



 OREGON DEPARTMENT OF TRANSPORTATION	
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Mark Kightlinger	Reviewer: Lauren Juzeler
Drafter: Mark Kightlinger	Checker: Lauren Juzeler
EROSION AND SEDIMENT CONTROL PLAN	
SHEET NO. FB06	

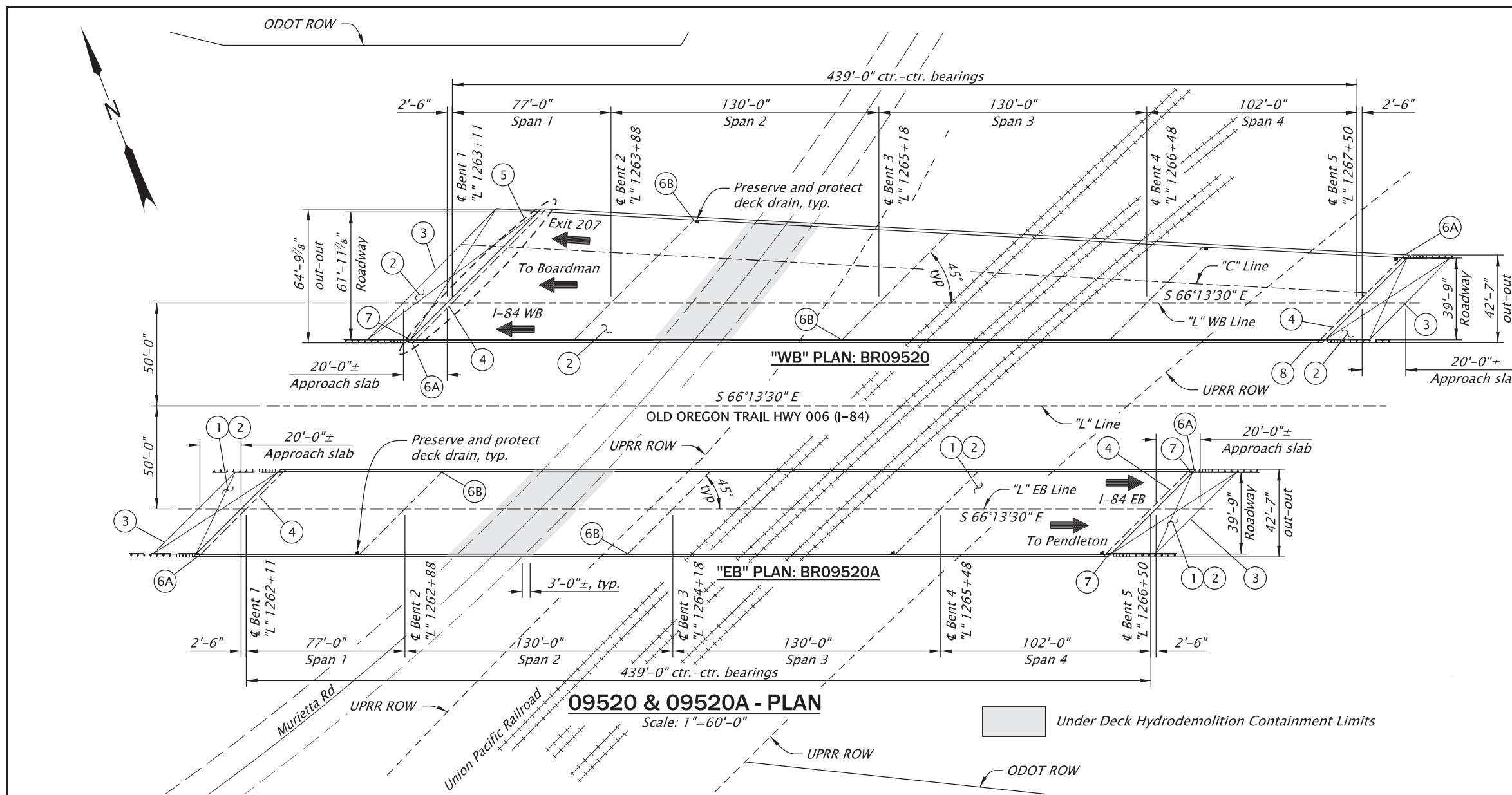
RENEWS: 06-30-2027

FINAL ELECTRONIC DOCUMENT
AVAILABLE UPON REQUEST



LOCATION MAP

BR09520
 SEC. 08, T. 2 N., R. 32 E., W.M.
 LAT. 45.673427, LONG. -118.837447
 BR09520A
 SEC. 08, T. 2 N., R. 32 E., W.M.
 LAT. 45.673210, LONG. -118.837944



09520 & 09520A - PLAN

Scale: 1"=60'-0"

Under Deck Hydrodemolition Containment Limits

GENERAL NOTES

DESIGN NOTES:
 Work on bridges 09520 and 09520A is designed in accordance with the 2020 edition of the "AASHTO LRF Bridge Design Specifications" and October 2024 edition of the "Oregon Bridge Design Manual", Bridge Design Category 'Bridge Preservation' for structural inlay work and 'Bridge Retrofit' for bearing work.

CONSTRUCTION NOTES

Provide all material and perform all work according to 2024 Oregon Standard Specifications for Construction and Supplemental Project Special Provisions.

For construction staging, see Traffic Control plans, sheet A02.

Perform Class 2 Surface Preparation on bridge deck and bridge approach slabs prior to beginning Stage 1 traffic control. Verify that unsound concrete is repaired prior to beginning Stage 1 traffic control, as directed.

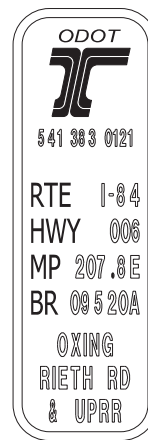
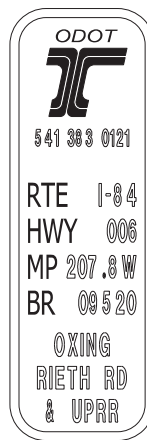
Provide Under Deck Hydrodemolition Containment, as specified, for hydrodemolition work.

Provide HPC(IC)4500 - 3/4" concrete for structural concrete inlay.

Provide Controlled Low Strength Material (CLSM) at void under wingwall.

Existing information is based on available existing plans. Verify all information with field measurements.

See Informational Drawings for details not shown.



(For details, see std. dwg. BR195)

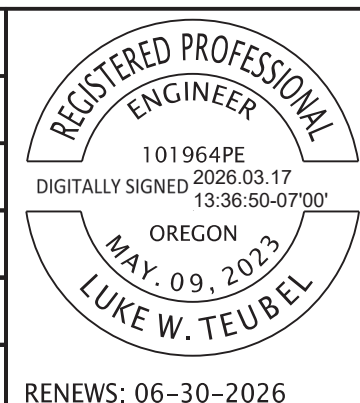
BRIDGE ID MARKERS

Scale: No Scale

Railroad Map Number V-ORE-04 54
 Approx. Railroad Milepoint 213
 Lat. 45.67342778
 Long. 118.8372556

ODOT Easements shown on ODOT
 Drawing 8B-35-4 & 8B-34-16

NOT FOR CONSTRUCTION - INFORMATIONAL DWGS.: 23308-23328, 58835, 61487-61494, 72682	STRUCTURE NO. 09520/A
ACCOMPANIED BY DWGS.: JA02-JA05, BR195, BR203	BDS DWG NO. 114037
	CALC. BOOK 7904
	HWY: 006 M.P.: 207.88
	COUNTY UMATILLA
	DATE 03/2026



RENEWS: 06-30-2026

WORK ITEMS

- 1 Perform Class 2 Surface Preparation on bridge deck and bridge approach slabs. Omit Class 1 Surface Preparation.
- 2 Perform Concrete Deck Micro-milling and Deep Cut Hydrodemolition. Provide containment prior to hydrodemolition. Construct Structural Concrete Inlay. See sheet JA02 for details.
- 3 Seal joint at approach slab end. See Roadway plans, sheet A02.
- 4 Construct Elastomeric Concrete Nosing and seal joint between header and approach slab with Hot Applied Joint Sealant. See sheet JA02 for detail.
- 5 Replace bearings at Bent 1. See sheets JA03 - JA05 for details.
- 6A Install Bridge ID Markers on bridge rail transitions. See detail this sheet, and BR195.
- 6B Install Bridge ID Markers on bridge columns, as directed. See detail this sheet, and BR195.
- 7 Attach guardrail transition to bridge rail, see BR203 & Roadway plans sheet A02.
- 8 Fill void under wingwall with CLSM grout.

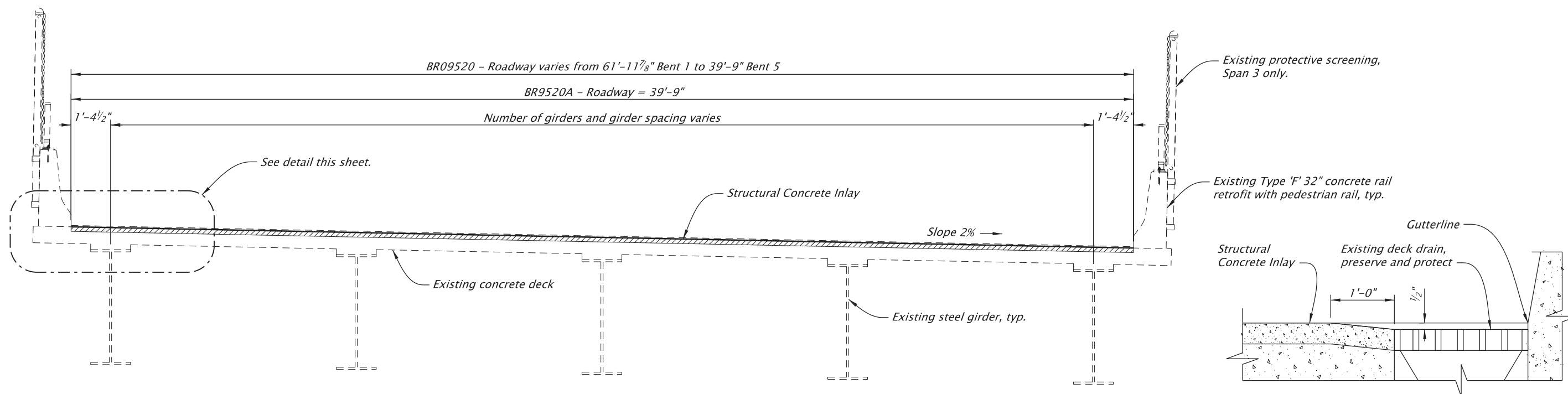
OREGON DEPARTMENT OF TRANSPORTATION

Hwy 6 EB/WB over Rieth Hwy & UPRR
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT
 OLD OREGON TRAIL HIGHWAY
 UMATILLA COUNTY

Designer: Luke Teubel, PE Reviewer: George Bornstedt, PE
 Drafter: James Schaefer Checker: John Adkins, PE

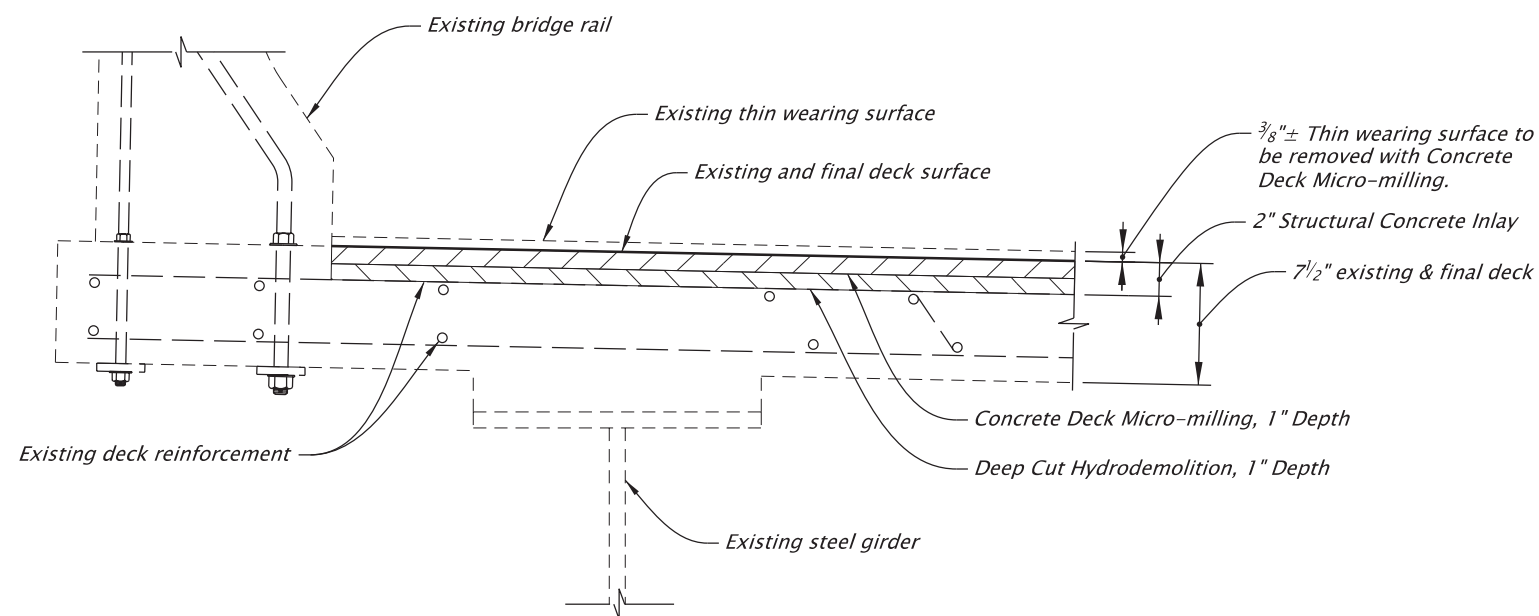
09520/A - PLAN AND NOTES

SHEET NO.
JA01

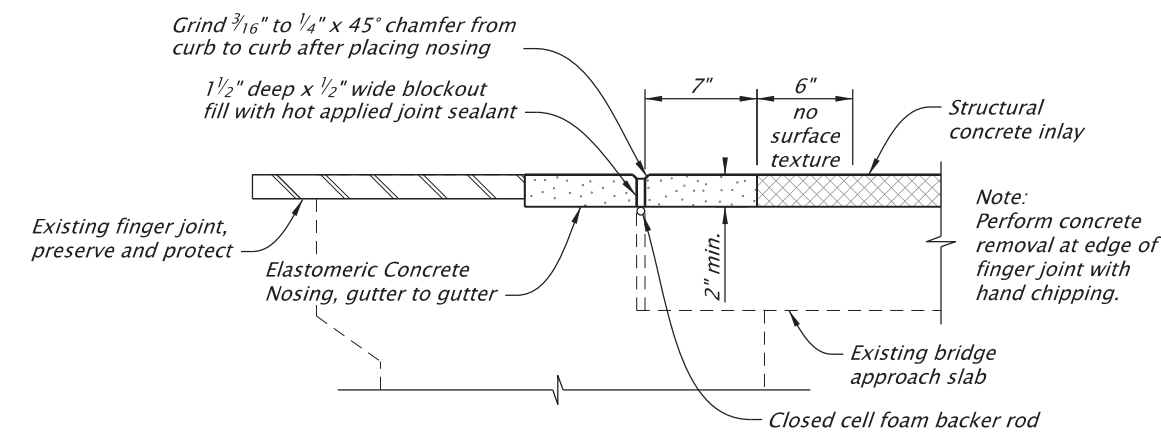


BR9520/A - TYPICAL SECTION
Scale: 1/4" = 1'-0"

INLAY TAPER AROUND DECK DRAIN
Scale: No Scale



STRUCTURAL CONCRETE INLAY DETAIL
Scale: 1" = 1'-0"



BRIDGE END JOINT DETAIL
Scale: 1" = 1'-0"

NOTES:
Chloride contaminated concrete depth = 1"±

Preserve and protect existing bridge rail, pedestrian rail and protective fencing.

Preserve and protect existing reinforcement.

Reinforcement location and cover depth vary. Verify depth, as specified.

Top of structural inlay to match top of existing finger joints.

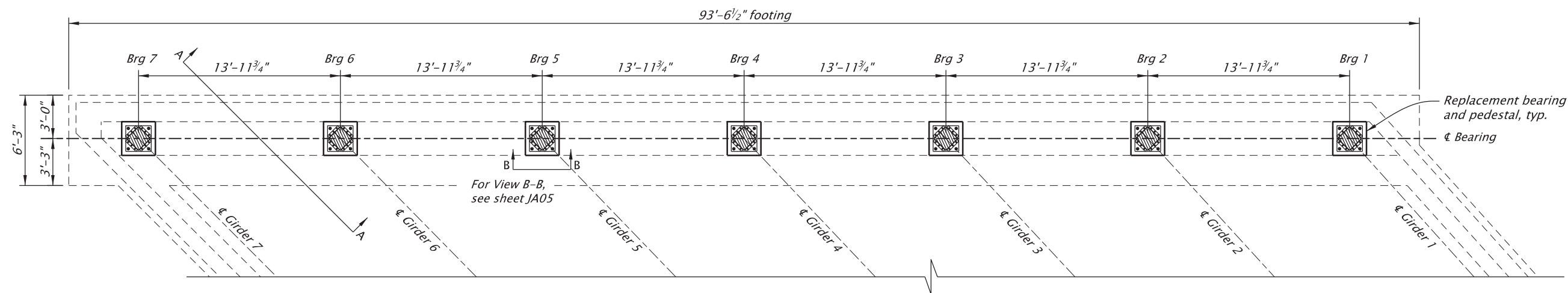
For accompanied by drawings, see sht. JA01

STRUCTURE NO.	09520/A
BDS DWG NO.	114038
CALC. BOOK	7904
HWY: 006	
M.P.: 207.88	
COUNTY	UMATILLA
DATE	03/2026

REGISTERED PROFESSIONAL ENGINEER
 101964PE
 DIGITALLY SIGNED 2026.03.17 13:37:15-07'00"
 OREGON
 MAY. 09, 2023
 LUKE W. TEUBEL
 RENEWS: 06-30-2026

OREGON DEPARTMENT OF TRANSPORTATION	
Hwy 6 EB/WB over Rieth Hwy & UPRR I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Luke Teubel, PE	Reviewer: George Bornstedt, PE
Drafter: James Schaefer	Checker: John Adkins, PE
09520/A - TYPICAL SECTION	
SHEET NO. JA02	

SCALE WARNING
IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE



PLAN VIEW - BENT 1

Scale: 1/8" = 1'-0"

BEARING REPLACEMENT NOTES:

Shoring arrangement is designed for dead load only. No live loads or construction loads are allowed on Span 1 while shored.

Provide Temporary Bridge Jacking, as specified. Do not jack bridge during first four days of structural inlay concrete cure.

Provide reinforcing steel according to ASTM Specification A706, or AASHTO M31 (ASTM A615) Grade 60.

Provide high strength epoxy from the QPL.

Provide General Structural Concrete Class 4000 - 3/4".

Provide steel plates according to ASTM A36.

Provide high strength bolts according to ASTM F3125 GR A325. Tighten all high strength bolts using the "Turn-of-Nut Tightening" method, unless shown otherwise.

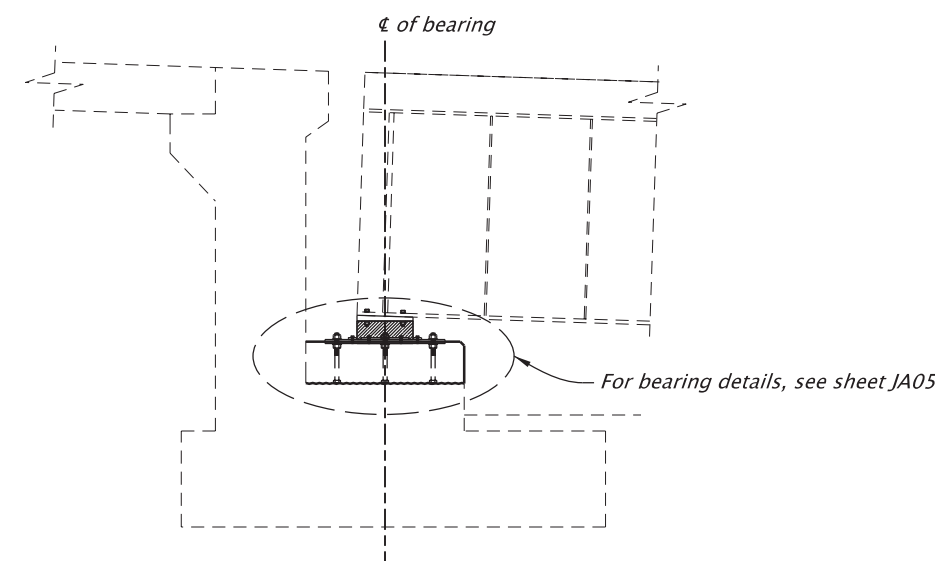
Provide anchor bolts according to ASTM F1554 Grade 55.

Hot-dip galvanize all structural steel, anchor bolts, and fasteners.

Provide steel-reinforced elastomeric bearing pad with sole plate vulcanized to top of sole plate by Manufacturer.

Provide elastomeric bearings with a shear modulus of 165 psi at 73°F.

All shown dimensions, elevations and stations of the existing structure may not necessarily correspond to in-field conditions and should be treated as approximate. Field verify existing conditions before fabrication or construction and bring significant discrepancies between dimensions shown and in-field conditions to the attention of the Engineer.

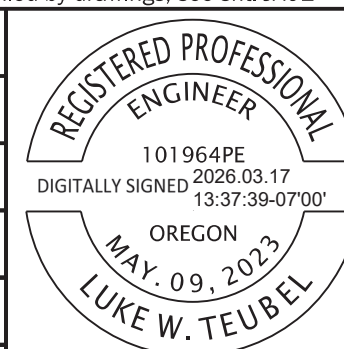


SECTION VIEW A-A


Scale: 1/4" = 1'-0"

For accompanied by drawings, see sht. JA01

STRUCTURE NO.	09520
BDS DWG NO.	114039
CALC. BOOK	7904
HWY: 006	
M.P.: 207.88	
COUNTY	UMATILLA
DATE	03/2026

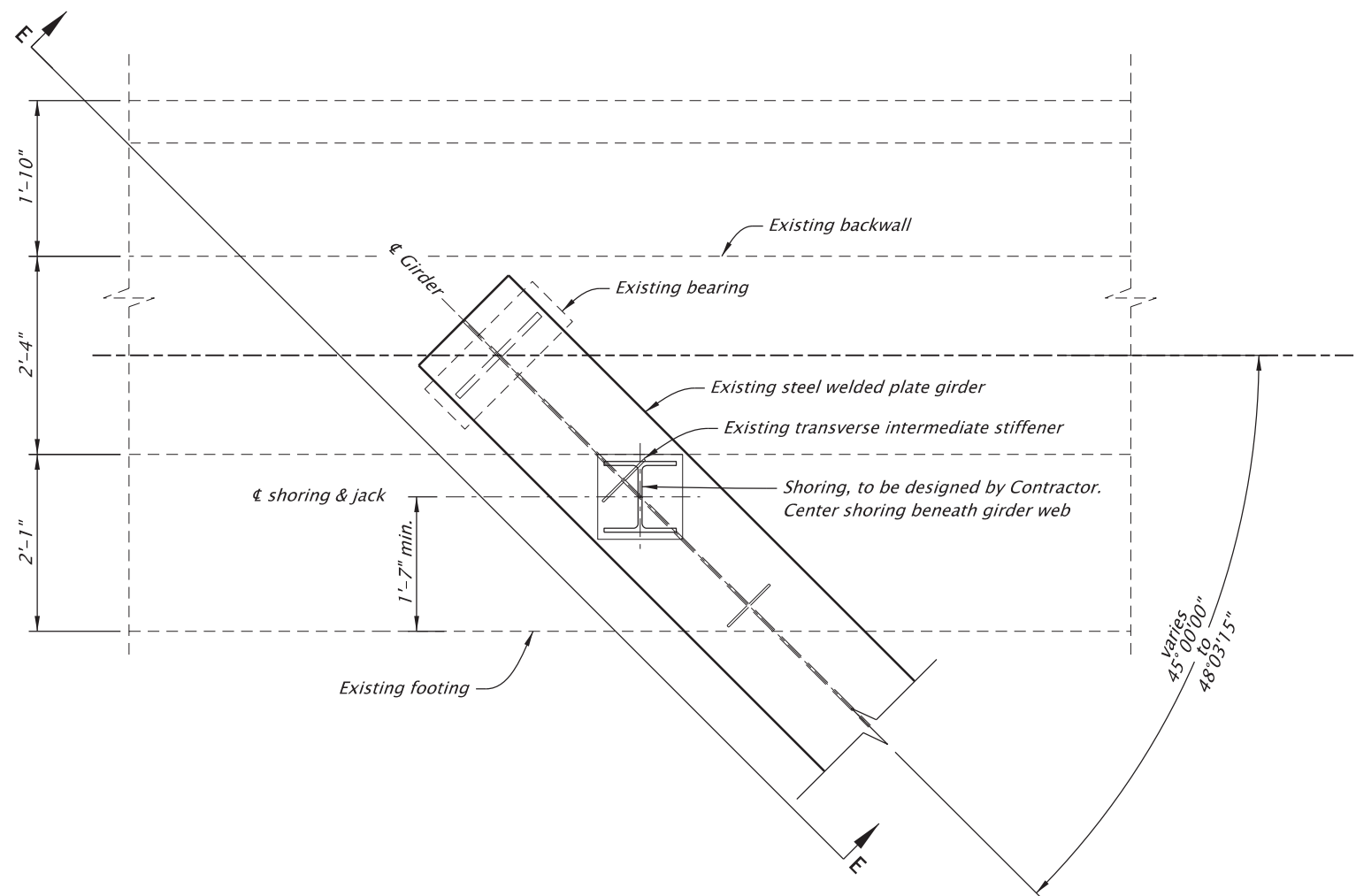


RENEWS: 06-30-2026

OREGON DEPARTMENT OF TRANSPORTATION 	
Hwy 6 EB/WB over Rieth Hwy & UPRR I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Luke Teubel, PE	Reviewer: George Bornstedt, PE
Drafter: James Schaefer	Checker: John Adkins, PE
PLAN - BENT 1 BEARING REPLACEMENT	
SHEET NO. JA03	

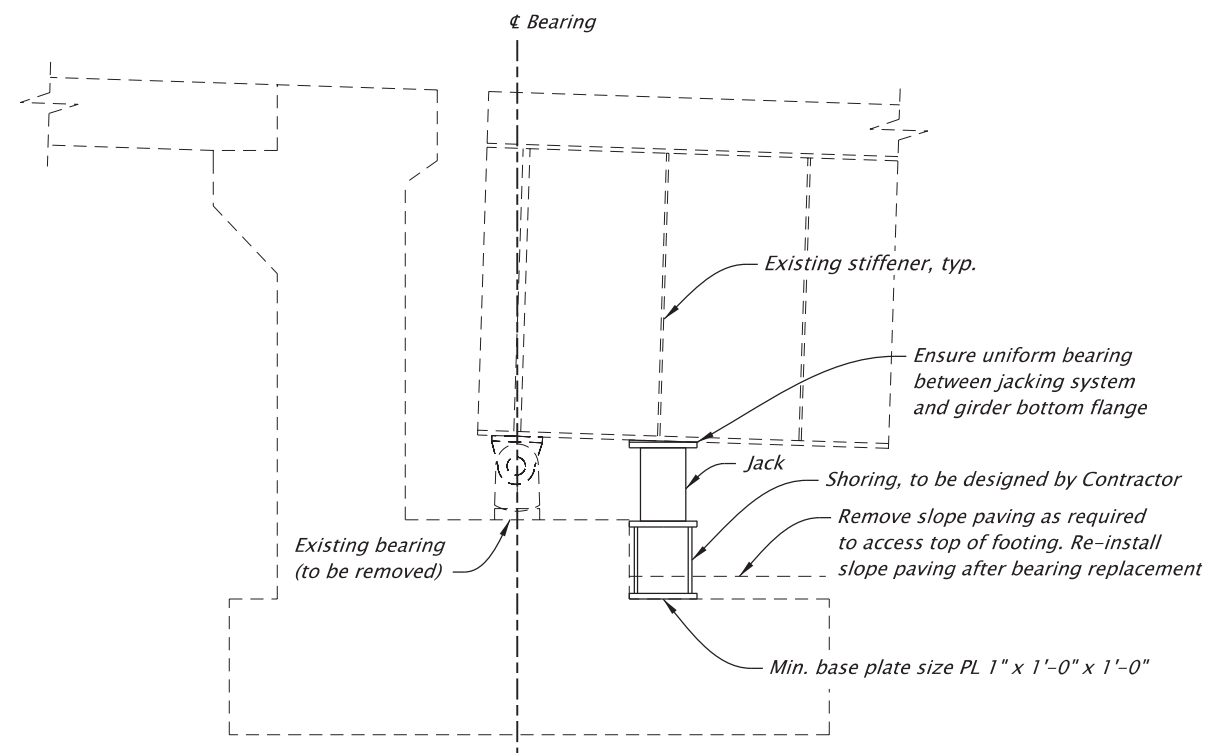
SCALE WARNING
IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE

JACKING LOAD TABLE		
LOCATION	SERVICE DEAD LOAD (kips/girder)	Factored Dead Load (1.5 x DC & DW) (kips/girder)
BENT 1	36.5	54.7



PLAN VIEW - TYPICAL SHORING LAYOUT

Scale: 1/2" = 1'-0"



VIEW E-E

Scale: 1/2" = 1'-0"

For accompanied by drawings, see sht. JA01

STRUCTURE NO. 09520
BDS DWG NO. 114040
CALC. BOOK 7904
HWY: 006 M.P.: 207.88
COUNTY UMATILLA
DATE 03/2026

REGISTERED PROFESSIONAL ENGINEER
 101964PE
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 OREGON
 MAY. 09, 2023
LUKE W. TEUBEL

RENEWS: 06-30-2026

OREGON DEPARTMENT OF TRANSPORTATION	
Hwy 6 EB/WB over Rieth Hwy & UPRR I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Luke Teubel, PE	Reviewer: George Bornstedt, PE
Drafter: James Schaefer	Checker: John Adkins, PE
JACKING DETAILS	
SHEET NO. JA04	

SCALE WARNING
IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE

BEARING DESIGN NOTES

Steel-reinforced elastomeric bearing pads are designed for the following loads:
 Dead Load, Service: 34.5 kips
 Live Load, Service: 107.6 kips
 Temperature Change Design Longitudinal Movement: 1.93 inches for $\Delta T = 100^\circ F$

Bearings designed according to Method A of AASHTO LRFD Bridge Design Specifications, Article 14.

Maximum design temperature of $115^\circ F$
 Minimum design temperatures of $-25^\circ F$
 Bearing designed for installation in temperature range of $15^\circ F - 75^\circ F$

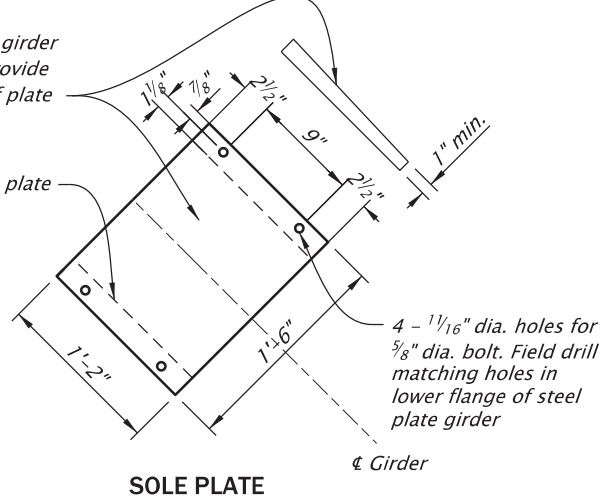
BEARING INSTALLATION SEQUENCE

- (1) Ensure bridge is closed to traffic and that Span 1 will be free of live loads and construction loads until bearing replacement is complete.
- (2) Remove existing anchor bolt nuts.
- (3) Jack girder until Service Dead Load indicated on Jacking Load Table is supported on shoring. Jack all girders simultaneously. Limit vertical displacement of girder end to $\frac{1}{4}$ ".
- (4) Remove existing rocker, masonry plate and sole plate. Grind remaining existing sole plate welds flush with girder lower flange bottom surface. Coat exposed girder flange steel with a Maintenance Coating from the QPL.
- (5) Remove existing concrete under existing bearings flush with top of footing and down to footing sound concrete. Cut existing anchor bolts flush with top of footing.
- (6) Drill holes for bearing attachment bolts in existing lower flange.
- (7) Install reinforcing and anchor bolts.
- (8) Install bearing. Center bearing on existing bearing stiffener.
- (9) At installation temperature, align masonry plate to be centered on sole plate and secure in position. See Bearing Design Notes for allowable bearing installation temperature range.
- (10) Place, finish and cure pedestal concrete. Protect bearing assembly while casting concrete.
- (11) After the concrete for a bearing pedestal has attained required strength, at installation temperature, lower girder. Verify top surface of finger joints are vertically aligned. Remove jack components.

Bevel top of plate to match girder bottom flange slope and provide a level surface at bottom of plate

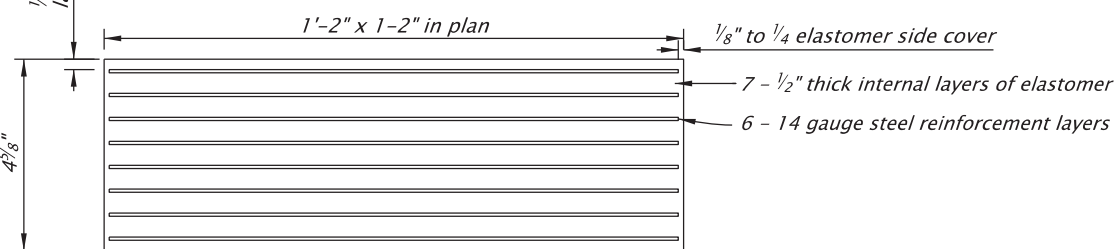
Elastomeric pad vulcanized to sole plate

$\frac{1}{4}$ " thick top and bottom layers of elastomer



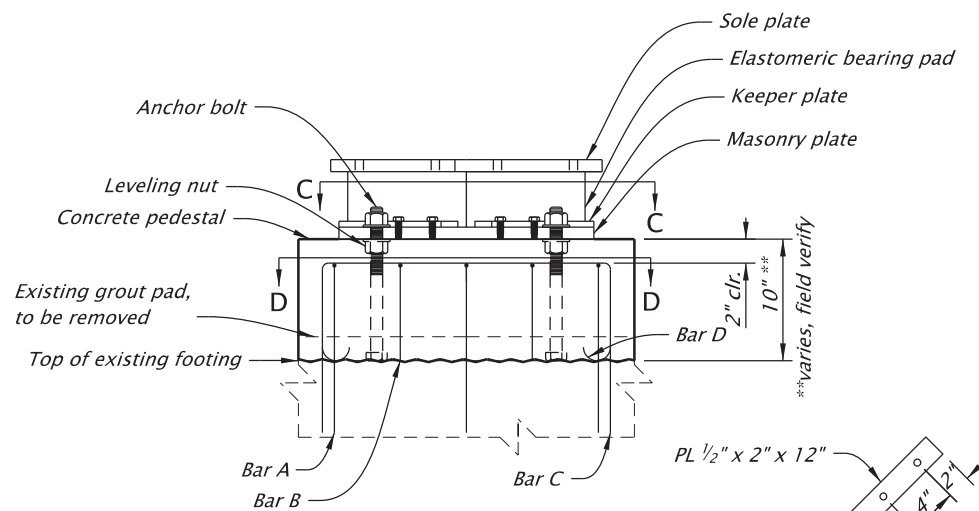
SOLE PLATE

Scale: $\frac{3}{4}$ " = 1'-0"



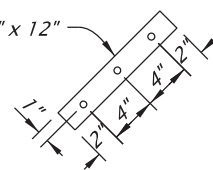
STEEL-REINFORCED ELASTOMERIC BEARING PAD

Scale: $\frac{3}{4}$ " = 1'-0"

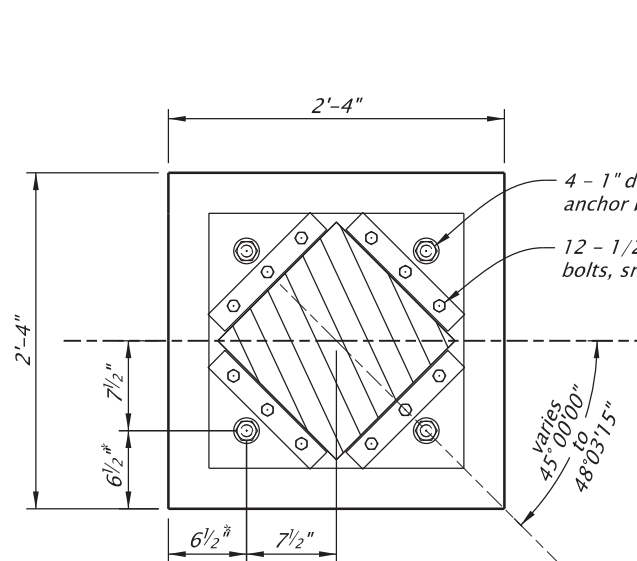


VIEW B-B

Scale: $\frac{3}{4}$ " = 1'-0"

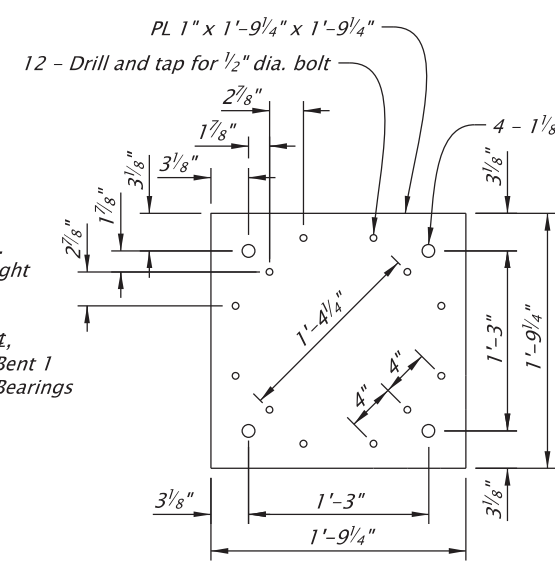


KEEPER PLATE

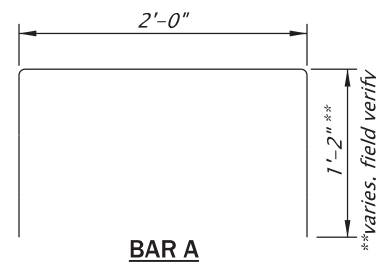


VIEW C-C

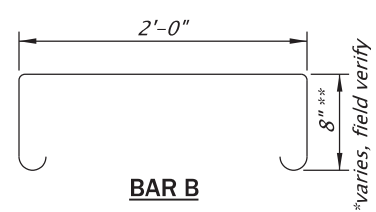
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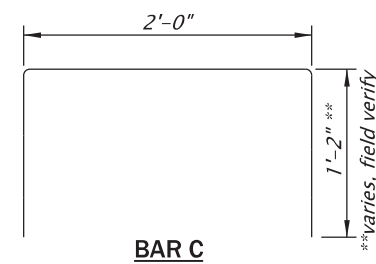
MASONRY PLATE



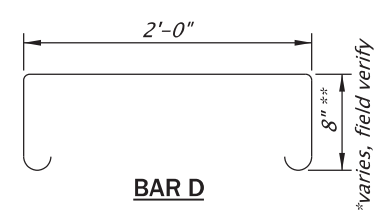
BAR A



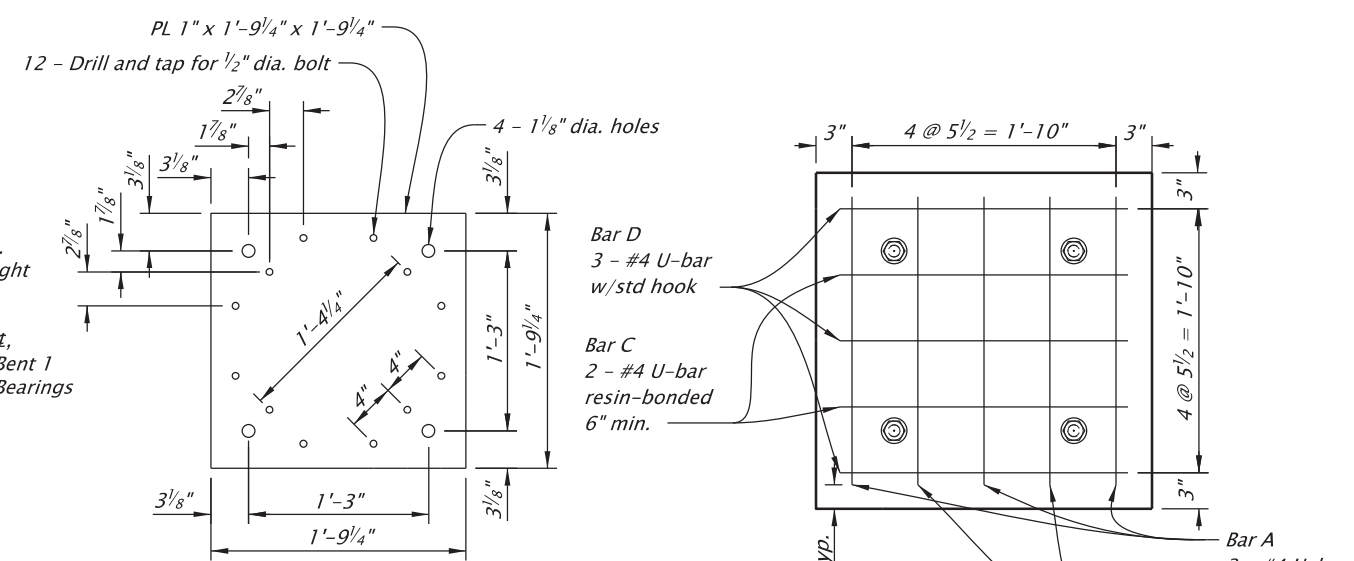
BAR B



BAR C



BAR D



VIEW D-D

Scale: $\frac{3}{4}$ " = 1'-0"

For accompanied by drawings, see sht. JA01

STRUCTURE NO.	09520
BDS DWG NO.	114041
CALC. BOOK	7904
HWY: 006	
M.P.: 207.88	
COUNTY	UMATILLA
DATE	03/2026

REGISTERED PROFESSIONAL ENGINEER

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OREGON
 MAY. 09, 2023
 LUKE W. TEUBEL

RENEWS: 06-30-2026

OREGON DEPARTMENT OF TRANSPORTATION

Hwy 6 EB/WB over Rieth Hwy & UPRR

I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT
 OLD OREGON TRAIL HIGHWAY
 UMATILLA COUNTY

Designer: Luke Teubel, PE Reviewer: George Bornstedt, PE
 Drafter: James Schaefer Checker: John Adkins, PE

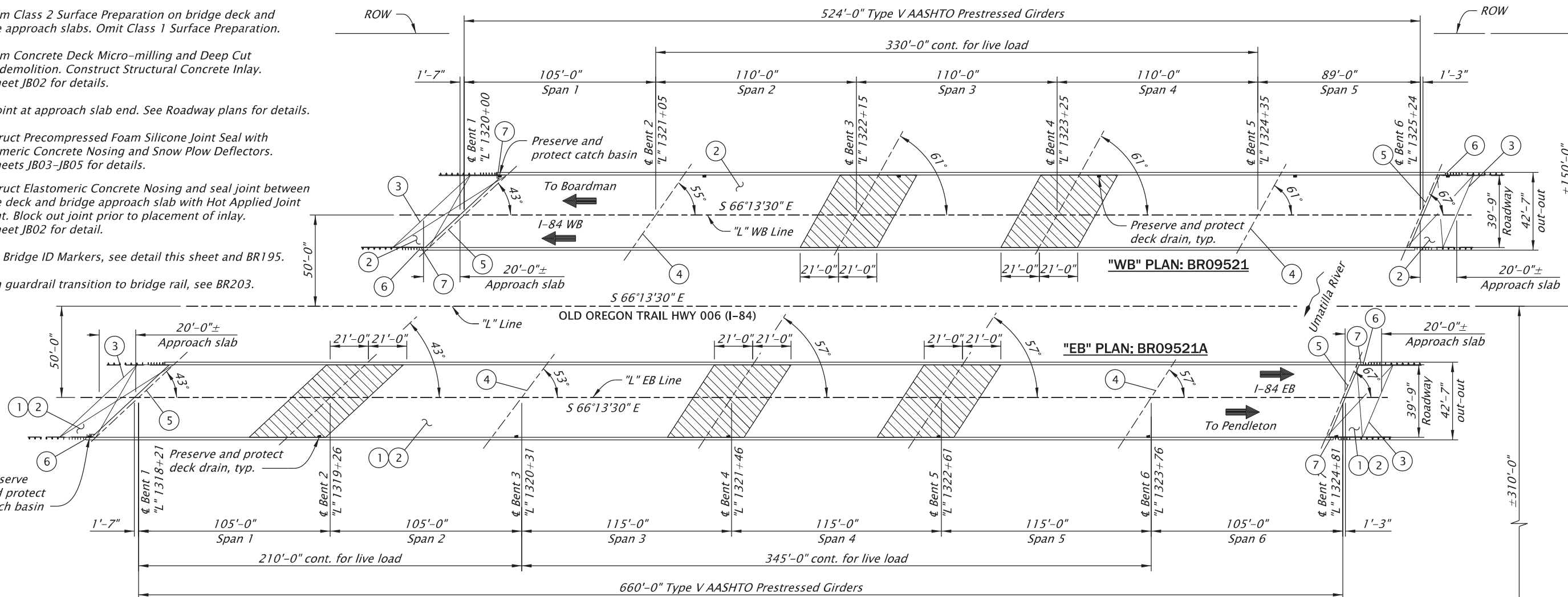
BEARING DETAILS

SHEET NO.
JA05

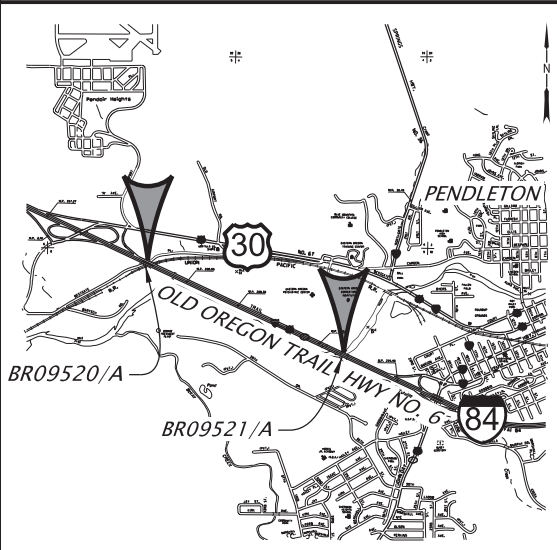
SCALE WARNING
 IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE

WORK ITEMS

- 1 Perform Class 2 Surface Preparation on bridge deck and bridge approach slabs. Omit Class 1 Surface Preparation.
- 2 Perform Concrete Deck Micro-milling and Deep Cut Hydrodemolition. Construct Structural Concrete Inlay. See sheet JB02 for details.
- 3 Seal joint at approach slab end. See Roadway plans for details.
- 4 Construct Precompressed Foam Silicone Joint Seal with Elastomeric Concrete Nosing and Snow Plow Deflectors. See sheets JB03-JB05 for details.
- 5 Construct Elastomeric Concrete Nosing and seal joint between bridge deck and bridge approach slab with Hot Applied Joint Sealant. Block out joint prior to placement of inlay. See sheet JB02 for detail.
- 6 Install Bridge ID Markers, see detail this sheet and BR195.
- 7 Attach guardrail transition to bridge rail, see BR203.



09521 & 09521A - PLAN
Scale: 1"=60'-0"



LOCATION MAP

BR09521
SEC. 09, T. 2 N., R. 32 E., W.M.
LAT. 45.666533, LONG. -118.816528
BR09521A
SEC. 09, T. 2 N., R. 32 E., W.M.
LAT. 45.666425, LONG. -118.817288

GENERAL NOTES

DESIGN NOTES:
Work on bridges 09521 and 09521A is designed in accordance with the 2020 edition of the "AASHTO LRFD Bridge Design Specifications" and October 2024 edition of the "Oregon Bridge Design Manual", Bridge Design Category 'Bridge Preservation'.

CONSTRUCTION NOTES

Provide all material and perform all work according to 2024 Oregon Standard Specifications for Construction and Supplemental Project Special Provisions.

For construction staging, see Traffic Control plans, sheet A02.

Perform Class 2 Surface Preparation on bridge deck and bridge approach slabs prior to beginning Stage 1 traffic control. Verify that unsound concrete is repaired prior to beginning Stage 1 traffic control, as directed.

Provide HPC(IC)4500 - 3/4" concrete for structural concrete inlay.

Existing information is based on available existing plans. Verify all information with field measurements.

See Informational Drawings for details not shown.

ODOT
541 383 0121
RTE I-84
HWY 006
MP 206.9 W
BR 09521
UMATILLA RIVER

ODOT
541 383 0121
RTE I-84
HWY 006
MP 206.9 E
BR 09521A
UMATILLA RIVER

(For details, see std. dwg. BR195)

BRIDGE ID MARKERS
Scale: No Scale

SCALE WARNING
IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE

STRUCTURE NO.	09521/A
BDS DWG NO.	114042
CALC. BOOK	7904
HWY: 006	M.P.: 208.96
COUNTY	UMATILLA
DATE	03/2026

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MAY. 09, 2023
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RENEWS: 06-30-2026

OREGON DEPARTMENT OF TRANSPORTATION

Hwy 6 EB/WB over Umatilla River

I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT
OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY

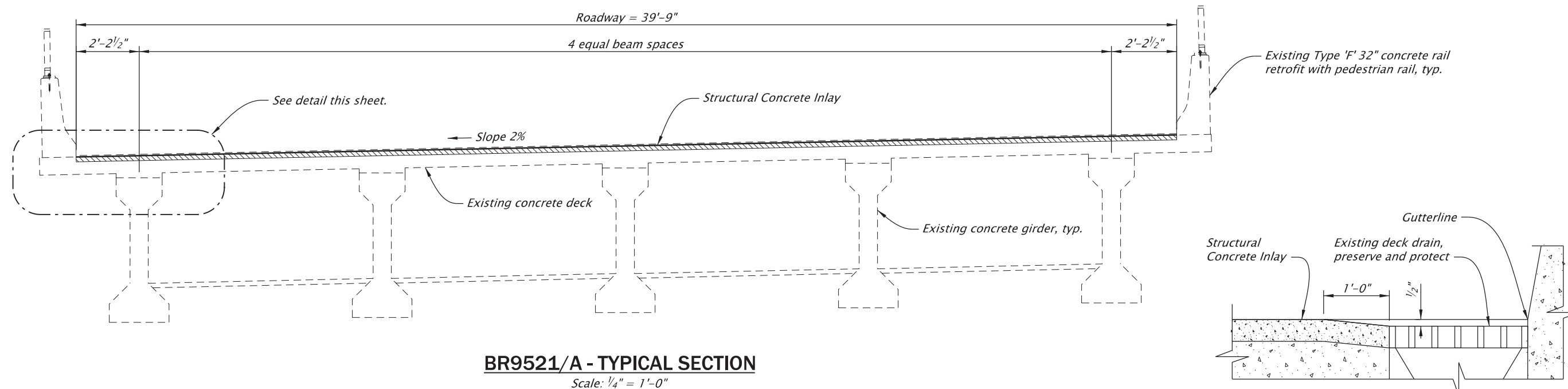
Designer: Luke Teubel, PE
Reviewer: George Bornstedt, PE
Drafter: James Schaefer
Checker: John Adkins, PE

09521/A - PLAN AND NOTES

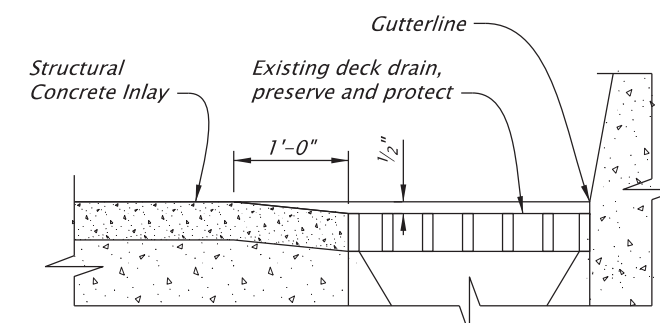
SHEET NO. JB01

NOT FOR CONSTRUCTION - INFORMATIONAL DWGS.: 23329-23339, 72682

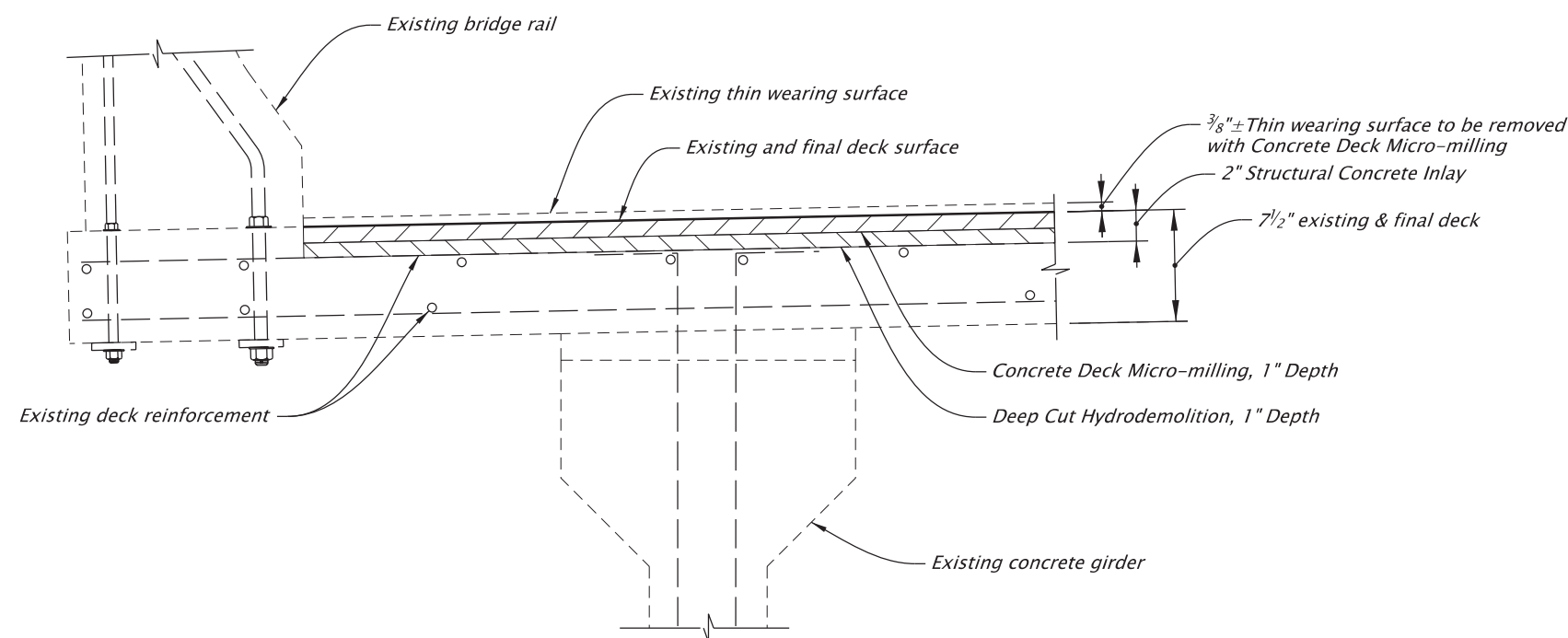
ACCOMPANIED BY DWGS.: JB02-JB05, BR195, BR203



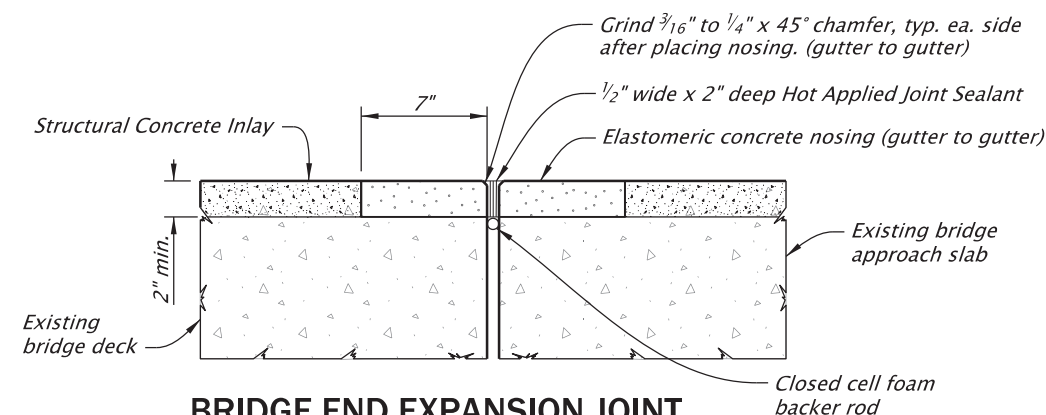
BR9521/A - TYPICAL SECTION
Scale: 1/4" = 1'-0"



Note:
Taper inlay to drain around perimeter of drain
INLAY TAPER AROUND DECK DRAIN
Scale: No Scale



STRUCTURAL CONCRETE INLAY DETAIL
Scale: 1" = 1'-0"



BRIDGE END EXPANSION JOINT
Scale: No Scale

NOTES:
Chloride contaminated concrete depth = 1"±
Preserve and protect existing bridge rail and pedestrian rail.
Preserve and protect existing reinforcement.
Reinforcement location and cover depth may vary. Verify depth, as specified.

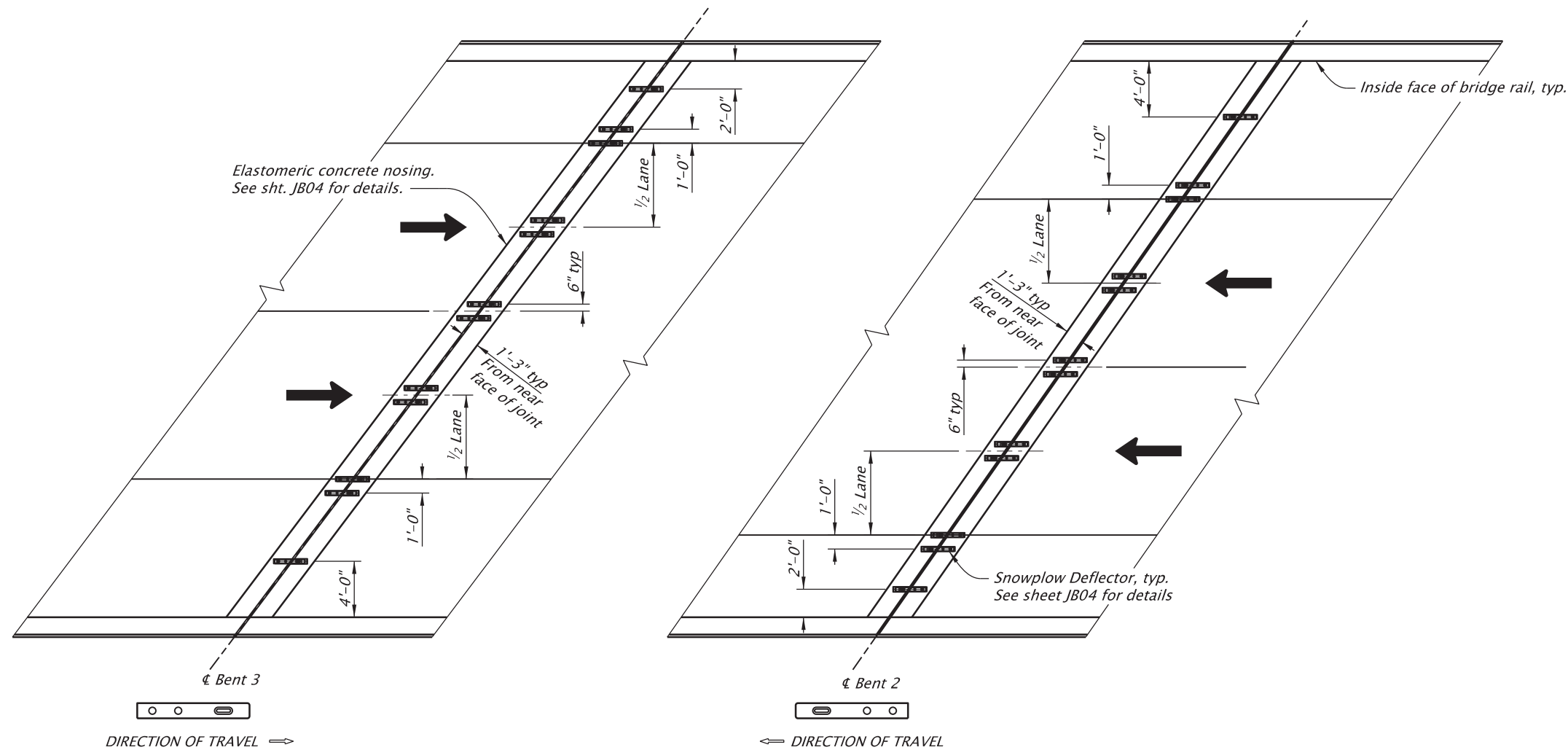
SCALE WARNING
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For accompanied by drawings, see sht. JB01

STRUCTURE NO. 09521/A
BDS DWG NO. 114043
CALC. BOOK 7904
HWY: 006 M.P.: 208.96
COUNTY UMATILLA
DATE 03/2026

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LUKE W. TEUBEL
RENEWS: 06-30-2026

OREGON DEPARTMENT OF TRANSPORTATION	
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Luke Teubel, PE	Reviewer: George Bornstedt, PE
Drafter: James Schaefer	Checker: John Adkins, PE
09521/A - TYPICAL SECTION	SHEET NO. JB02



09521A - SNOW PLOW DEFLECTOR LAYOUT
 Scale: 1"=10'-0"
 Bent 3 shown, Bent 6 similar

09521 - SNOW PLOW DEFLECTOR LAYOUT
 Scale: 1"=10'-0"
 Bent 2 shown, Bent 5 similar

SCALE WARNING
 IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE

For accompanied by drawings, see sht. JB01

STRUCTURE NO. 09521/A
BDS DWG NO. 114044
CALC. BOOK 7904
HWY: 006 M.P.: 208.96
COUNTY UMATILLA
DATE 03/2026

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OREGON DEPARTMENT OF TRANSPORTATION Hwy 6 EB/WB over Umatilla River I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY		
Designer: Luke Teubel, PE Drafter: James Schaefer	Reviewer: George Bornstedt, PE Checker: John Adkins, PE	
SNOWPLOW DEFLECTOR PLAN		SHEET NO. JB03

NOTES

1. Use thread locking system (Loctite Blue 242 or equivalent) at all threaded areas.
 2. Provide 316 stainless steel anchors, POWER-Sert $\frac{5}{8}$ " dia. x $3\frac{1}{16}$ " anchor, internally threaded $\frac{1}{2}$ "-13 UNC or equivalent. Protect threads during installation of insert.
 3. Clean the open space between elastomeric nosing recess area, snowplow deflector, and slotted hole area prior to filling with sealant conforming to 02440.11.
 4. Blockout joint with temporary blockout prior to placing elastomeric concrete nosing. See detail this sheet.
 5. Prepare joint surfaces and install precompressed foam silicone joint seal including bend joint according to the manufacturer's recommendations.
- See sheet JB05 for Sections B-B, C-C, D-D, and E-E.

SETTING VARIABLES - Bents 2,5 and 6

Temperature	Joint setting	Anchor setting
40°F	$1\frac{9}{16}$ "	$2\frac{3}{16}$ "
50°F	$1\frac{1}{2}$ "	2"
60°F	$1\frac{3}{8}$ "	$1\frac{7}{8}$ "
70°F	$1\frac{1}{4}$ "	$1\frac{3}{4}$ "

Joint width (normal to joint centerline) varies approximately 0.10" per 10°F change in temperature.

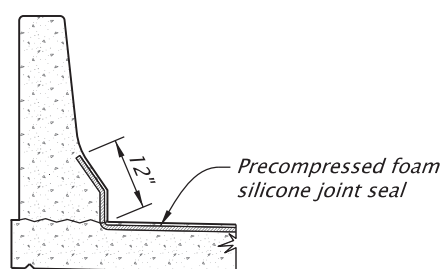
SETTING VARIABLES - Bent 3

Temperature	Joint setting	Anchor setting
40°F	$1\frac{9}{16}$ "	$2\frac{3}{16}$ "
50°F	$1\frac{7}{16}$ "	2"
60°F	$1\frac{5}{16}$ "	$1\frac{7}{8}$ "
70°F	$1\frac{3}{16}$ "	$1\frac{1}{16}$ "

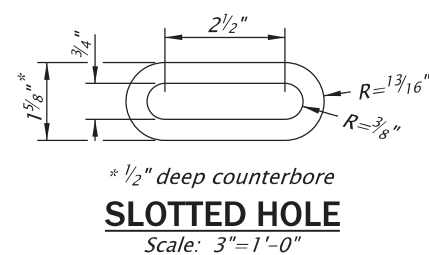
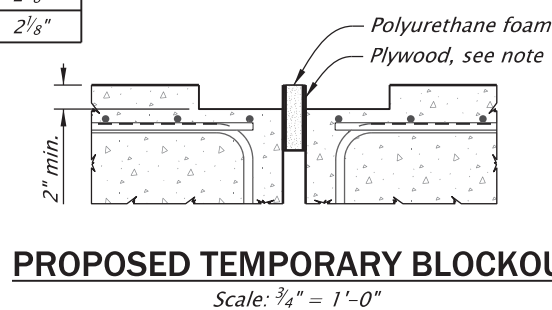
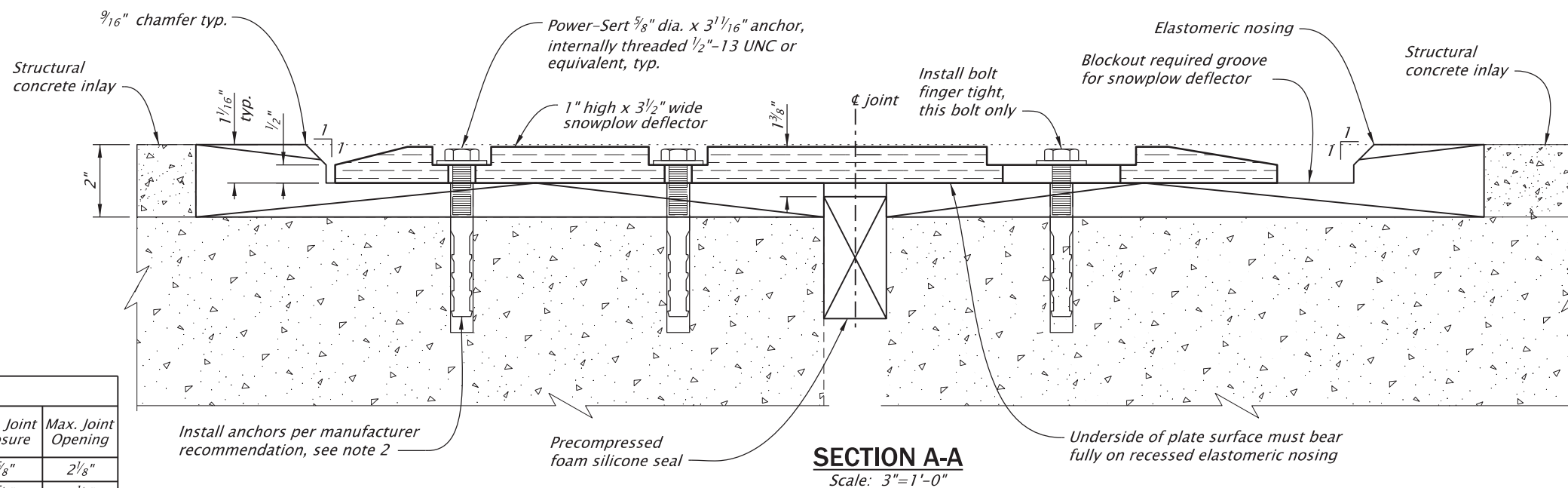
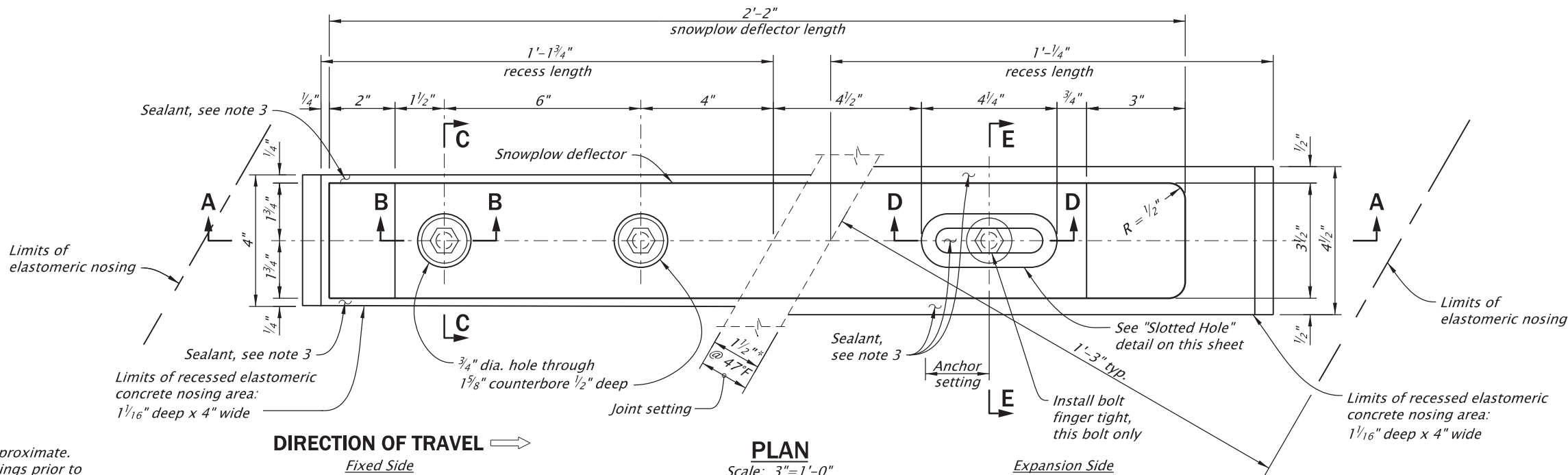
Joint width (normal to joint centerline) varies approximately 0.13" per 10°F change in temperature.

JOINT INFORMATION

Structure	Location	Movement Parallel to Roadway	Skew	Min. Joint Seal Depth	Nominal Width	Min. Joint Closure	Max. Joint Opening
09521	Bent 2	$1\frac{1}{4}$ "	55°	2"	$1\frac{1}{2}$ "	$\frac{5}{8}$ "	$2\frac{1}{8}$ "
09521	Bent 5	$1\frac{1}{4}$ "	61°	2"	$1\frac{1}{2}$ "	$\frac{5}{8}$ "	$2\frac{1}{8}$ "
09521A	Bent 3	$1\frac{9}{16}$ "	53°	2"	$1\frac{1}{2}$ "	$\frac{5}{8}$ "	$2\frac{1}{8}$ "
09521A	Bent 6	$1\frac{1}{4}$ "	57°	2"	$1\frac{1}{2}$ "	$\frac{5}{8}$ "	$2\frac{1}{8}$ "



JOINT SEAL AT BRIDGE RAIL
Scale: $\frac{3}{8}$ " = 1'-0"



SCALE WARNING
IF THIS SCALE LINE DOES NOT MEASURE ONE INCH, THEN DRAWING IS NOT TO SCALE

For accompanied by drawings, see sht. JB01

STRUCTURE NO. 09521/A
BDS DWG NO. 114045
CALC. BOOK 7904
HWY: 006 M.P.: 208.96
COUNTY UMATILLA
DATE 03/2026





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OREGON
MAY. 09, 2023
LUKE W. TEUBEL
RENEW: 06-30-2026

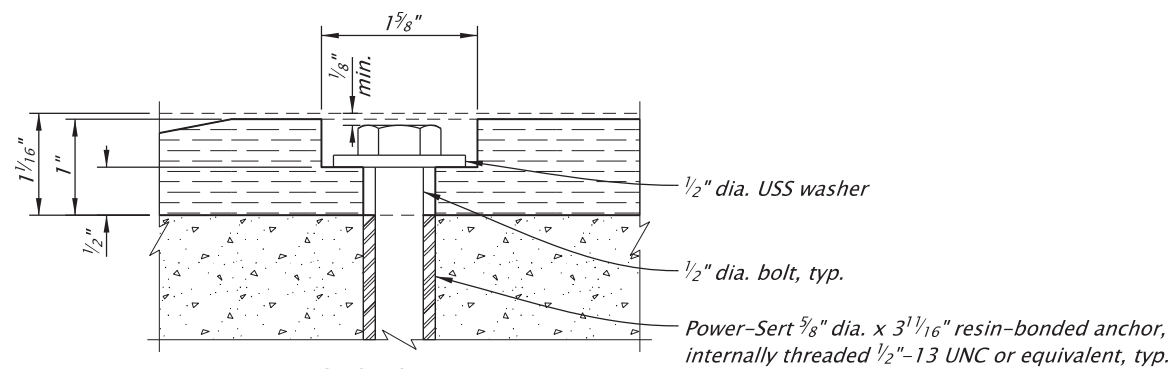
OREGON DEPARTMENT OF TRANSPORTATION
Hwy 6 EB/WB over Umatilla River
I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT
OLD OREGON TRAIL HIGHWAY
UMATILLA COUNTY
Designer: Luke Teubel, PE
Reviewer: George Bornstedt, PE
Drafter: James Schaefer
Checker: John Adkins, PE
SNOWPLOW DEFLECTOR DETAILS
SHEET NO. JB04

NOTES
See sheet JD04 for locations of Sections B-B, C-C, D-D, and E-E.

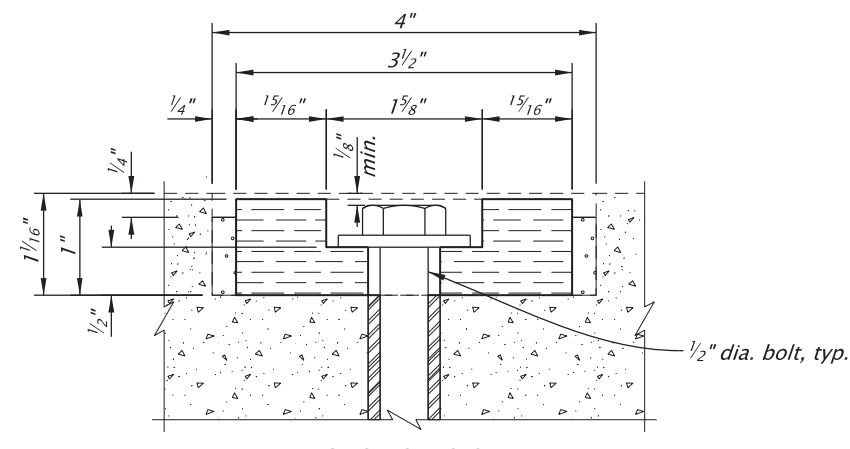
All hardware to be 316 stainless steel.

LEGEND

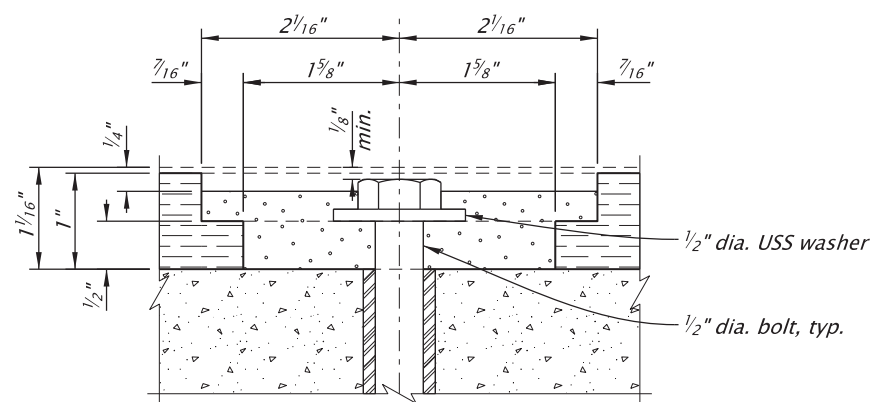
-  Sealant, see Note 3 on sheet JD03
-  Existing bridge or approach slab concrete
-  Anchor
-  Snowplow deflector



SECTION B-B
Scale: 6" = 1'-0"

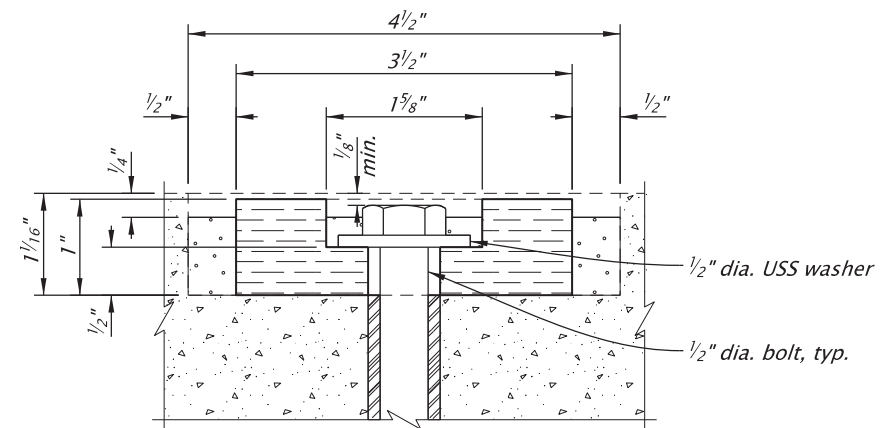


SECTION C-C
Scale: 6" = 1'-0"



SECTION D-D
Scale: 6" = 1'-0"

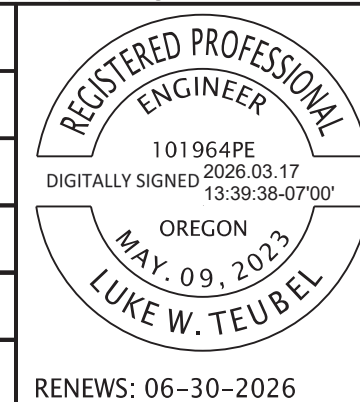
NOTE
See plan view on sheet JD04 for slotted hole details.




SECTION E-E
Scale: 6" = 1'-0"

For accompanied by drawings, see sht. JB01

STRUCTURE NO. 09521/A
BDS DWG NO. 114046
CALC. BOOK 7904
HWY: 006 M.P.: 208.96
COUNTY UMATILLA
DATE 03/2026


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OREGON DEPARTMENT OF TRANSPORTATION 	
Hwy 6 EB/WB over Umatilla River I-84: RIETH INTERCHANGE AND UMATILLA RIVER BRIDGES PROJECT OLD OREGON TRAIL HIGHWAY UMATILLA COUNTY	
Designer: Luke Teubel, PE	Reviewer: George Bornstedt, PE
Drafter: James Schaefer	Checker: John Adkins, PE
SNOWPLOW DEFLECTOR SECTIONS & DETAILS	
SHEET NO. JB05	

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FINAL ELECTRONIC DOCUMENT AVAILABLE UPON REQUEST